



**R07LX**

**DATE: SEPTEMBER 26, 2007**

**TO: U.S. DEALERS**

**SUBJECT: RECALL R07LX-BENDIX SR-7 SPRING BRAKE VALVE**

This notice is sent to you in accordance with the requirements of The National Traffic and Motor Vehicle Safety Act.

Blue Bird Corporation has decided that a defect which relates to motor vehicle safety exists in certain 2007 through 2008 model year Blue Bird "Vision" school and transit buses equipped with air brakes manufactured from December 01, 2005 through May 24, 2007 and certain 2007-2008 model year Blue Bird All American school and transit buses equipped with air brakes manufactured from February 06, 2007 through May 09, 2007.

The internal rubber check valve of the Bendix SR-7 spring brake modulating valve may leak causing a delay in the application of the spring brakes to park the vehicle after the operator pulls the dash valve button. This condition may cause one or more of the following to occur:

- A delay in the application of the parking brakes after the operator pulls the yellow "Parking Brake" dash button in to the apply position, which may result in unintentional vehicle rollaway;
- The brake shoes may not fully disengage from the brake drum(s) after the operator depresses the "Parking Brake" dash button in to the release position; and/or
- Operational performance of the service brakes may be affected under certain conditions.

These conditions can occur without warning and may result in property damage and/or injury or death to persons inside and around the bus

Blue Bird is conducting a recall to correct this defect. Buses with the defect must be corrected according to the attached Bendix instructions.

If our records indicate affected units were delivered in your service area, a printout identifying affected units is enclosed.

**BLUE BIRD CORPORATION**  
P.O. Box 937 • Fort Valley, Georgia 31030  
Phone: (478) 825-2021

**It is the dealer's responsibility to verify that the correct owner name, address and telephone number is provided for each listed vehicle.** Any corrections or updates should be made on BBOND. Addresses that cannot be updated on BBOND should be forwarded to the Recall Administrator.

If you have in your possession or have sold a vehicle that was purchased from another dealer that may be affected by this recall, please notify me at 478-822-2242.

Labor time authorized to remove and replace the Bendix SR-7 spring brake valve is 1 hour per bus.

Warranty applications may be submitted to Blue Bird VIA ClaimTrac (use create campaign/bulletin claim).

Federal law requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

Dealers are reminded of their responsibilities under section 154 of The National Traffic and Motor Vehicle Safety Act of 1991. **Dealers are required to complete modifications/repairs on units in their inventory before delivering to the final owner. Reference Blue Bird Body Company Dealer Memo No. 42-92.**

Questions regarding this recall campaign should be directed to me at (478) 822-2242.

Sincerely,



Bill Coleman  
Corporate Recall Administrator  
Blue Bird Corporation



BLUE BIRD

R07LX

October 05, 2007

Dear Blue Bird Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Blue Bird Corporation has decided that a defect which relates to motor vehicle safety exists in certain 2007-2008 model year Blue Bird "Vision" school and transit buses equipped with air brakes manufactured from December 01, 2005 through May 24, 2007 and certain 2007-2008 model year Blue Bird All American school and transit buses equipped with air brakes manufactured from February 06, 2007 through May 09, 2007.

The defect involves the Bendix SR-7 spring brake modulating valve. The internal rubber check valve of the Bendix SR-7 spring brake modulating valve may leak causing a delay in the application of the spring brakes to park the vehicle after the operator pulls the dash valve button. This condition may cause one or all of the following to occur:

- A delay in the application of the parking brakes after the operator pulls the yellow "Parking Brake" dash button in to the apply position, which may result in unintentional vehicle roll away;
- The brake shoes may not fully disengage from the brake drum(s) after the operator depresses the "Parking Brake" dash button in to the release position; and/or
- Operational performance of the service brakes may be affected under certain conditions.

These conditions can occur without warning and may result in property damage and/or injury or death to persons inside and around the bus.

Buses with the defect must be corrected as soon as possible. Your Blue Bird bus(es) affected by recall R07LX are identified by body serial number(s) on the enclosed reply sheets.

If you no longer own the subject bus(es), please complete the appropriate section of the pink reply sheet and return to Blue Bird in the enclosed pink postage prepaid envelope.

A qualified technician should perform this recall. You may perform this recall yourself or have the work done by a qualified repair facility convenient to you. You may also contact your Blue Bird dealer for assistance with this recall.

**BLUE BIRD CORPORATION**

P.O. Box 937 • Fort Valley, Georgia 31030

Phone: (478) 825-2021

To receive check valve kits to correct the SR-7 spring brake valves, confirm your correct shipping address on the enclosed yellow parts request sheet, sign and return it to Blue Bird in the enclosed pink postage prepaid reply envelope. Replacement SR-7 spring brake valve retrofit kits will be shipped "No Charge" to you via UPS.

Estimated labor time to remove the Bendix SR-7 brake valve, install the check valve kit and replace the valve is 1 hour per bus. Reimbursement for labor for performing Recall R07LX may be obtained by completing the pink request for reimbursement sheet provided and returning it to Blue Bird in the enclosed pink postage prepaid envelope.

If the modifications/repair directed by this notification was performed on your bus prior to the receipt of this recall notification, complete and sign the recall reply sheet and attached a copy of the work order/invoice. Mail the documents in the pink self-addressed postage paid envelope included with the recall notification to Blue Bird for warranty consideration. Reimbursements will be made in accordance with the requirements of the National Highway Transportation Safety Act, title 49 Code of Federal Regulations, Parts 573 and 577.

Federal law requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

If Blue Bird Body Company should fail to or is unable to remedy this condition without charge to you, you may contact:

**ADMINISTRATOR  
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION  
1200 NEW JERSEY AVE. SE  
WASHINGTON, D.C. 20590**

or you may call The National Highway Traffic Safety Administration toll free at:

1-888-327-4236  
TTY: 1-800-424-9153

or got to: <http://www.safecar.gov>

Questions regarding this recall campaign should be directed to me at (478) 822-2242.

Thank you,



Bill Coleman  
Corporate Recall Administrator  
Blue Bird Corporation



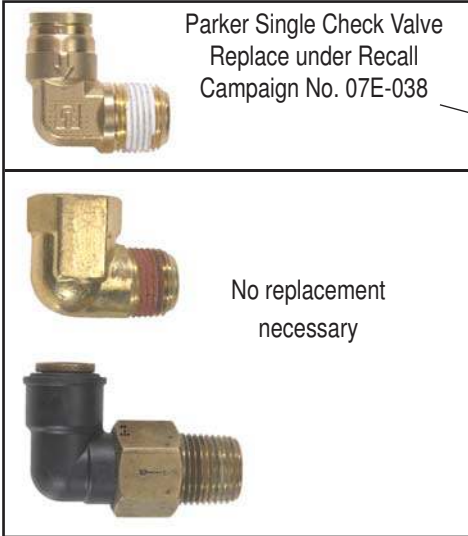
# Installation Instructions

INTERNAL CHECK VALVE  
CARTRIDGE RETROFIT KIT  
BENDIX® SR-7™ SPRING BRAKE  
MODULATING VALVE  
Recall Campaign No.: 07E-037

Vous pouvez vous procurer une copie de ce document en français sur le site [www.Bendix.com](http://www.Bendix.com) en cliquant sur le lien "Recall Assistance Center" (Centre d'assistance pour les rappels produits).

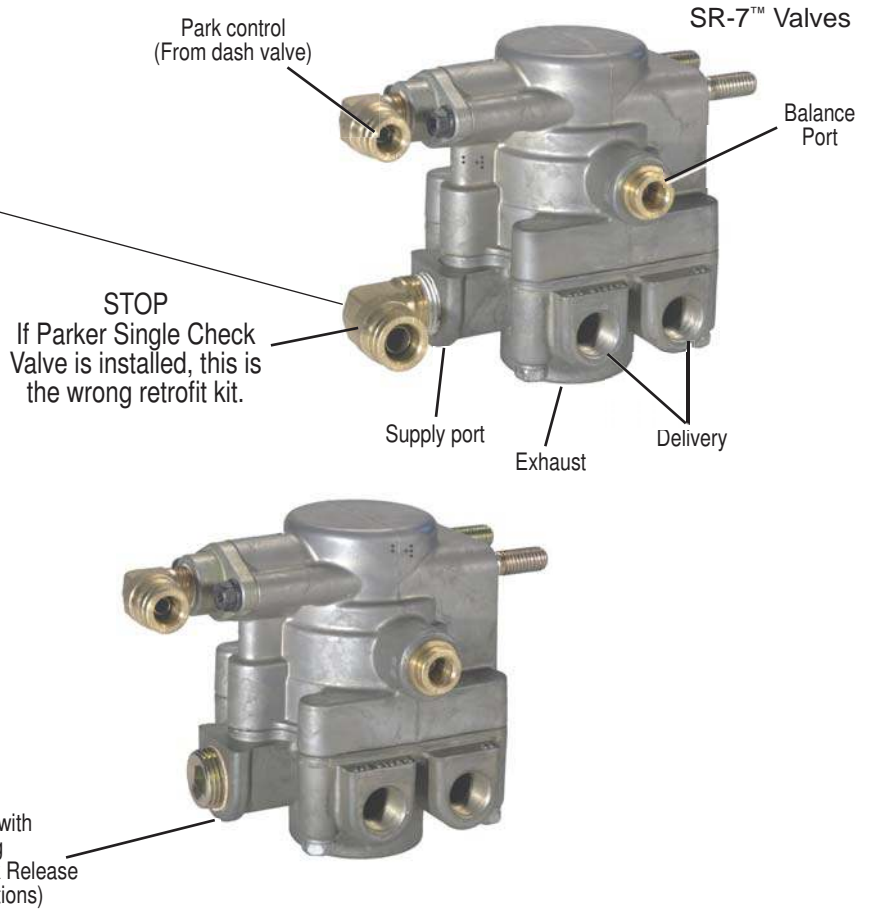
Para obtener una copia de este documento en español, usted puede visitarnos al sitio en Internet [www.Bendix.com](http://www.Bendix.com) y hacer un clic en el anexo "Recall Assistance Center" (Centro de asistencia para los productos devueltos).

Single Check Valves that might be found in the supply port of the SR-7™ valve

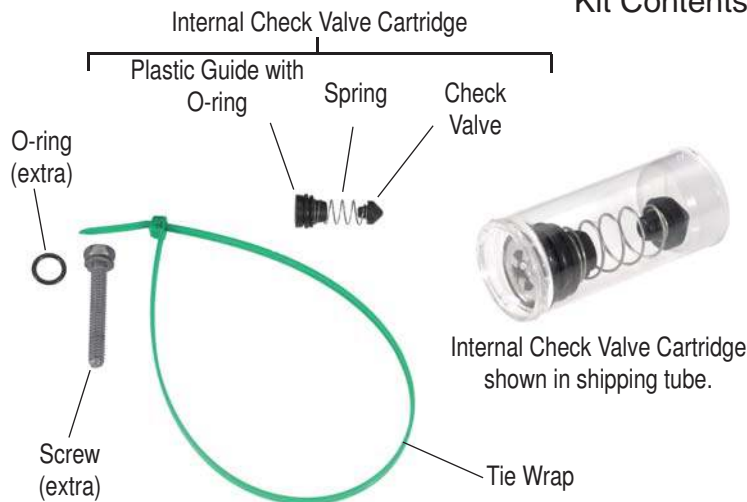


Parker Single Check Valve  
Replace under Recall Campaign No. 07E-038

No replacement necessary



## Kit Contents



Internal Check Valve Cartridge Retrofit Kit part number **K022699** contains the following components:

Description	Qty.
Internal Check Valve Cartridge	1
Plastic guide with o-ring	
Spring	
Check valve	
O-ring	1 (extra)
Screw	1 (extra)
Green tie wrap	1

Figure 1 - BENDIX® SR-7™ SPRING BRAKE MODULATING VALVE PORT DESIGNATIONS AND KIT CONTENTS

## **GENERAL**

This instruction sheet is intended to provide the necessary information to service the Bendix® SR-7™ spring brake modulating valve with a retrofit internal check valve cartridge. This is in connection with Recall Campaign number 07E-037.

## **GENERAL SAFETY GUIDELINES**

### **WARNING! PLEASE READ AND FOLLOW THESE INSTRUCTIONS TO AVOID PERSONAL INJURY OR DEATH:**

When working on or around a vehicle, the following general precautions should be observed at all times.

1. Park the vehicle on a level surface, apply the parking brakes, and always block the wheels. Always wear safety glasses.
2. Stop the engine and remove ignition key when working under or around the vehicle. When working in the engine compartment, the engine should be shut off and the ignition key should be removed. Where circumstances require that the engine be in operation, **EXTREME CAUTION** should be used to prevent personal injury resulting from contact with moving, rotating, leaking, heated or electrically charged components.
3. Do not attempt to install, remove, disassemble or assemble a component until you have read and thoroughly understand the recommended procedures. Use only the proper tools and observe all precautions pertaining to use of those tools.
4. If the work is being performed on the vehicle's air brake system, or any auxiliary pressurized air systems, make certain to drain the air pressure from all reservoirs before beginning ANY work on the vehicle. If the vehicle is equipped with an AD-IS® air dryer system or a dryer reservoir module, be sure to drain the purge reservoir.
5. Following the vehicle manufacturer's recommended procedures, deactivate the electrical system in a manner that safely removes all electrical power from the vehicle.
6. Never exceed manufacturer's recommended pressures.
7. Never connect or disconnect a hose or line containing pressure; it may whip. Never remove a component or plug unless you are certain all system pressure has been depleted.
8. Use only genuine Bendix® replacement parts, components and kits. Replacement hardware, tubing, hose, fittings, etc. must be of equivalent size, type and strength as original equipment and be designed specifically for such applications and systems.
9. Components with stripped threads or damaged parts should be replaced rather than repaired. Do not attempt repairs requiring machining or welding unless

specifically stated and approved by the vehicle and component manufacturer.

10. Prior to returning the vehicle to service, make certain all components and systems are restored to their proper operating condition.
11. For vehicles with Antilock Traction Control (ATC), the ATC function must be disabled (ATC indicator lamp should be ON) prior to performing any vehicle maintenance where one or more wheels on a drive axle are lifted off the ground and moving.

## **SUPPLY LINE REMOVAL**

**CAUTION:** Do not disconnect air lines and fittings unless specified. Installation of this kit does not require that the SR-7™ spring brake modulating valve be removed or that all the air lines be disconnected. **Note:** Instructions for SR-7™ valve removal and installation are included in this document in the event that this kit cannot be installed with the SR-7™ valve mounted on the vehicle.

1. Locate the SR-7™ spring brake modulating valve on the vehicle. Typically it is located near the rear axle mounted on the frame rail or cross member.
2. Identify the supply (SUP 1) port. Note: this port will contain either an external single check valve or a pipe plug. Refer to Figure 1.
3. If an external single check valve is present, disconnect the air line to the check valve. Refer to Figures 2 and 3.

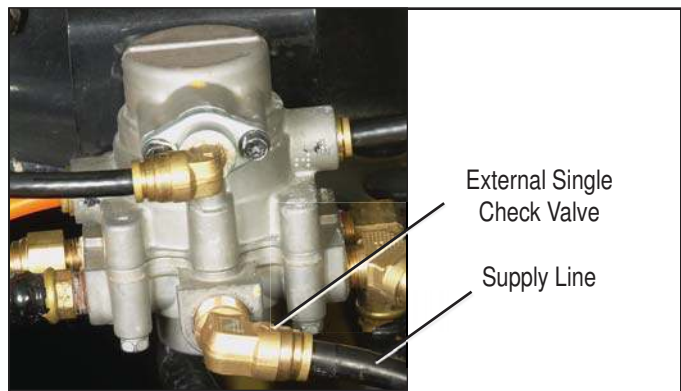


Figure 2 - SR-7™ VALVE AND EXTERNAL SINGLE CHECK VALVE

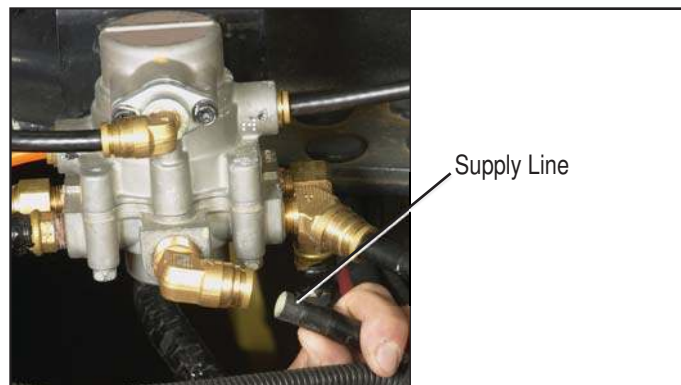


Figure 3 - DISCONNECTING THE SUPPLY LINE

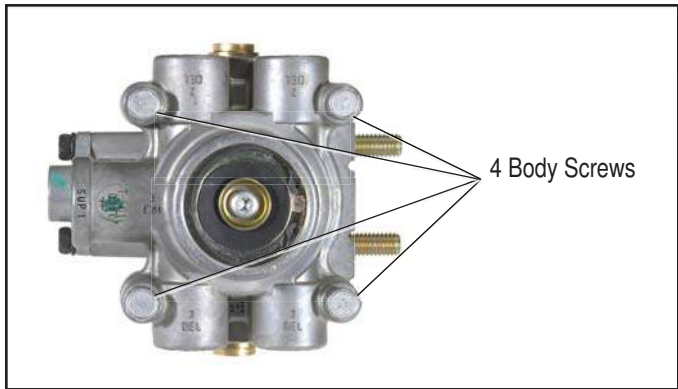


Figure 4 - *BOTTOM VIEW OF SR-7™ VALVE*

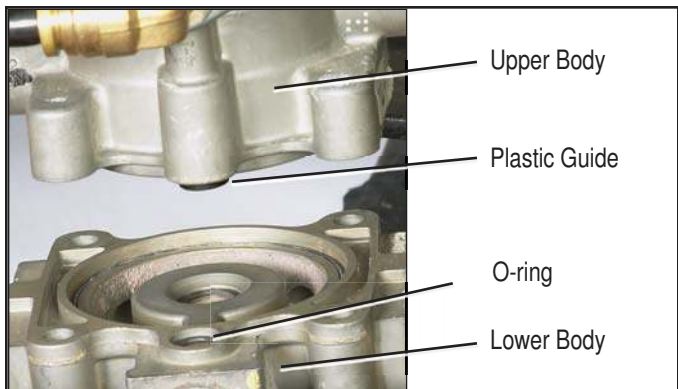


Figure 5 - *PLASTIC GUIDE AND O-RING SEAL*

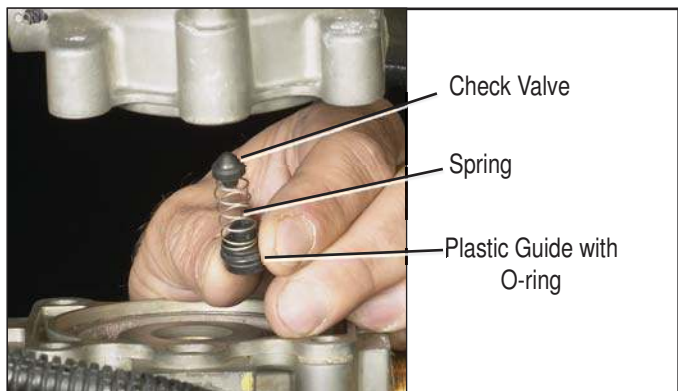


Figure 6 - *INTERNAL CHECK VALVE*

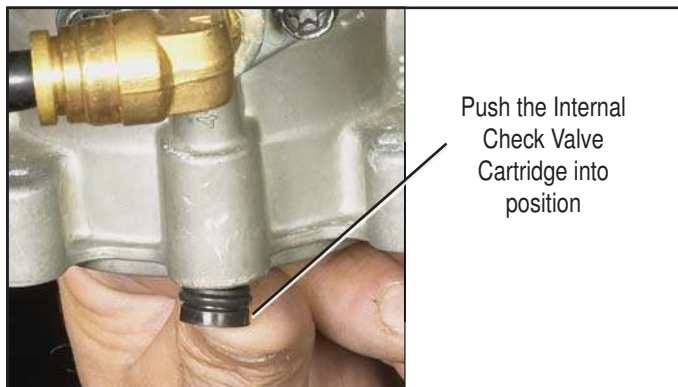


Figure 7 - *CARTRIDGE INSTALLATION*

## INTERNAL CHECK VALVE REMOVAL

4. Using a 7/16" wrench remove the four screws that secure the upper and lower bodies of the SR-7™ valve. Refer to Figure 4. Do not disconnect additional hoses or fittings. The separation between the upper and lower body should be approximately three inches to allow adequate room to install this kit.
5. Locate the plastic guide in the upper body of the SR-7™ valve directly above the supply port. The o-ring seal from the lower body may stick to the plastic guide when the bodies are separated. If so, remove it from the guide and place it back into the lower body. An extra o-ring has been included in this kit in the event that the o-ring is lost or damaged during servicing. Refer to Figure 5.
6. Remove the plastic guide, spring and check valve from the valve bore and discard. Note: The check valve may stick to its seat in the upper body. Be sure that all of the components are removed before going to the next step. Refer to Figure 6.

## CARTRIDGE INSTALLATION

1. Insert the replacement cartridge in the bore where the check valve, spring and plastic guide were removed. Note: Be sure to remove the replacement cartridge from its shipping tube prior to installation. Push the cartridge into position until it stops as shown in Figure 7. A portion of the plastic guide in the cartridge will stick out as shown in Figure 8. **DO NOT FORCE THE CARTRIDGE FURTHER INTO THE BORE.**

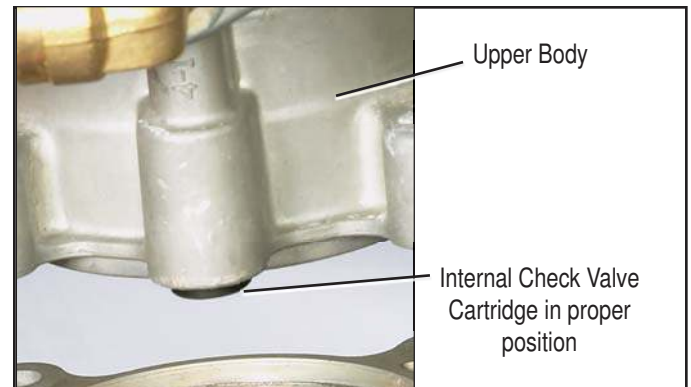


Figure 8 - *PROPER CARTRIDGE INSTALLATION*

2. As shown in Figures 9 and 10, align the valve lower body with the upper body. Push the body halves together. Insert two of the four screws (finger tight) into the lower body mounting holes closest to the supply port first. This will help with alignment. One extra screw is included in this kit in the event one is lost during installation.
3. Insert the remaining two screws and tighten finger tight. Tighten all four screws to 80-100 in. lbs.
4. Reconnect any air lines that were disconnected.
5. Secure the enclosed tie wrap on the valve or fitting in a conspicuous location to identify the field repair has been performed.
6. Proceed to "Testing the SR-7™ Spring Brake Modulating Valve."

### VALVE REMOVAL (IF REQUIRED)

In case installation of the internal check valve cartridge is not feasible or the entire SR-7™ valve is required to be replaced due to damaged or missing components in the Parker single check valve, follow these steps for removal.

1. Prior to removing the SR-7™ valve, review the general safety guidelines of this document.
2. Identify and mark all air lines before disconnecting.
3. Remove the two mounting nuts that secure the valve to the frame rail and remove the valve.
4. Compare the valve that was removed to the replacement valve. If the valve that was removed contains fittings or pipe plugs that the new valve does not, note their orientation and remove the fittings.
5. If the removed SR-7™ valve contains an external single check valve in the supply port, identify the type of single check valve. **If the SR-7™ valve contains a Parker single check valve, do not reuse it in the replacement valve. Refer to Figure 1 for single check valve identification. The Parker single check valve is covered by Recall Campaign No. 07E-038.** Contact the Bendix Recall Center for a replacement.
6. If the external check valve located in the supply port is not a Parker check valve, it must be removed and installed on the replacement SR-7™ valve. A standard fitting **is not** an acceptable substitute.
7. Using pipe sealant, install the fittings that were removed into the replacement SR-7™ valve. Be sure that orientation of the fittings is the same. Teflon tape is not an acceptable substitute for pipe sealant. Install fittings finger tight, then tighten 1.5 - 2 turns. For shaped fittings, such as tees and elbows, tighten no more than one additional turn to the final position.

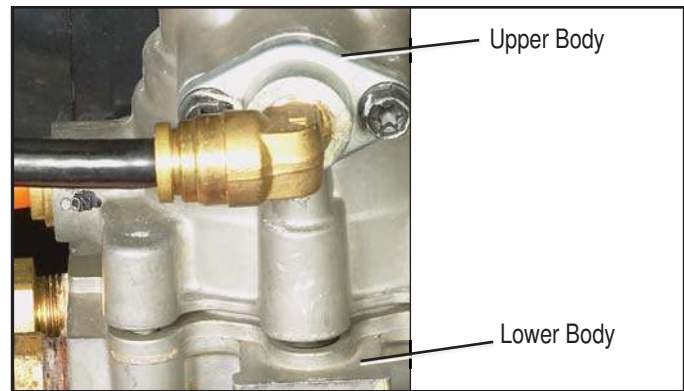


Figure 9 - POSITIONING THE UPPER & LOWER BODY

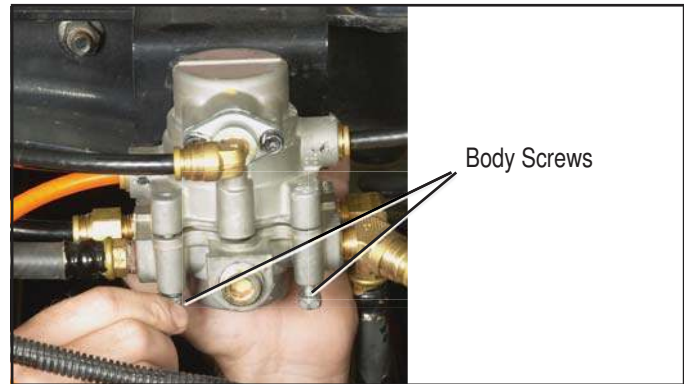


Figure 10 - SECURING THE UPPER & LOWER BODY (QUICK RELEASE VERSION SHOWN)

### VALVE INSTALLATION (IF REQUIRED)

1. Align the valve mounting studs with the mounting holes on the vehicle frame rail. Tighten the mounting nuts to 180-220 in. lbs.
2. Install the valve onto the vehicle ensuring all air lines are connected as marked during disassembly.

### TESTING THE SR-7™ SPRING BRAKE MODULATING VALVE

Perform operating and leakage tests as outlined below.

#### OPERATING TEST

Block vehicle and hold by means other than vehicle brakes. Charge air brake system to governor cut-out pressure.

Place parking control valve in "release" position. Observe that spring brake actuators release fully.

Place parking control valve in "park" position. Observe that spring brake actuators apply promptly, within 3 seconds.



## **LEAKAGE TEST**

Place the park control valve in the “release” position; using a soap solution, coat all ports including the exhaust port and external check valve, if applicable. A 1" bubble in 3 seconds is permitted (175 SCCM).

If the SR-7™ valve does not function as described, or if leakage is excessive, it is recommended that it be replaced with a new unit available from a Bendix parts outlet.

## **INSTALLATION IDENTIFICATION**

If the tie wrap has not already been secured to the valve, secure it to the valve or fitting in a conspicuous location to identify that the field repair has been performed.

**Recall Assistance Center  
1-877-461-2732**

**[www.Bendix.com](http://www.Bendix.com)**

**[sr7campaign@bendix.com](mailto:sr7campaign@bendix.com)**

