



PREVOST

**SAFETY
RECALL**

SR21-307

DATE:	August 2021	SECTION :	12 BRAKE & PNEUMATIC
SUBJECT:	EMERGENCY/PARKING BRAKE OVERRULE VALVE – RD-3 VALVE INSPECTION		

First Release

08-24-2021

APPLICATION

<p align="center">NOTICE TO SERVICE CENTERS</p> <p align="center"><i>Verify vehicle eligibility by checking warranty bulletin status with SAP or via ONLINE WARRANTY SYSTEM available on Service / Warranty tab of PrevoSt website.</i></p>		
Model	VIN	
X3-45 Commuter Model Year: 2021	4RKJ33492M9737751	4RKJ33492M9737801
	4RKJ3349XM9737769	4RKJ33494M9737802
	4RKJ33496M9737770	4RKJ33496M9737803
	4RKJ33498M9737771	4RKJ33498M9737804
	4RKJ3349XM9737772	4RKJ3349XM9737805
	4RKJ33491M9737773	4RKJ33491M9737806
	4RKJ33493M9737774	4RKJ33493M9737807
	4RKJ33495M9737775	4RKJ33495M9737808
	4RKJ33497M9737776	4RKJ33497M9737809
	4RKJ33499M9737777	4RKJ33493M9737810
	4RKJ33490M9737778	4RKJ33495M9737811
	4RKJ33492M9737779	4RKJ33497M9737812
	4RKJ33499M9737780	4RKJ33499M9737813
	4RKJ33490M9737781	4RKJ33490M9737814
	4RKJ33492M9737782	4RKJ33492M9737815
	4RKJ33494M9737783	4RKJ33494M9737816
	4RKJ33496M9737784	4RKJ33496M9737817
	4RKJ33498M9737785	4RKJ33498M9737818
	4RKJ3349XM9737786	4RKJ3349XM9737819
	4RKJ33491M9737787	4RKJ33496M9737820
	4RKJ33493M9737788	4RKJ33499M9737827
	4RKJ33495M9737789	4RKJ33490M9737828
	4RKJ33491M9737790	4RKJ33492M9737829
	4RKJ33493M9737791	4RKJ33499M9737830
	4RKJ33495M9737792	4RKJ33490M9737831
	4RKJ33497M9737793	4RKJ33492M9737832
	4RKJ33499M9737794	4RKJ33494M9737833
	4RKJ33490M9737795	4RKJ33496M9737834
	4RKJ33492M9737796	4RKJ3349XM9737836
	4RKJ33494M9737797	4RKJ33491M9737837
4RKJ33496M9737798	4RKJ33495M9737839	

	4RKJ33498M9737799	4RKJ33497M9737843
	4RKJ33490M9737800	4RKJ33495M9737856
<p>This Safety Recall does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery. The owners of the vehicles affected by this recall will be advised by a letter indicating the Vehicle Identification Number (VIN) of each vehicle concerned.</p>		

DESCRIPTION

On vehicles affected by this recall, it is necessary to perform an inspection to validate if the **RD-3** Emergency/Parking Brake Override Valve is properly installed.

MATERIAL

Parts that may be required:

Part No.	Description	Qty
640472	EMERGENCY/PARKING BRAKE OVERRULE VALVE RD-3 TYPE	1
0790362	PP-1 TYPE VALVE	a/r

NOTE

Material can be obtained through regular channels.

REQUIRED TOOLS

<p>OPEN END WRENCH SET</p> 	<p>TELESCOPING INSPECTION MIRROR</p> 
<p>PUNCH</p> 	

PROCEDURE



DANGER

Park vehicle safely, apply parking brake, stop the engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

Lockout & Tag out (LOTO) must be performed during set-up, maintenance or repair activities. Refer to your local procedure for detailed information regarding the control of hazardous energy.

PART 1 – INSPECTION AND CORRECTIVE MEASURE

1. A PP-1 type valve may have been used in place of a RD-3 type valve, which is incorrect. A label is affixed on the valve body to identify the valve type.



Figure 1: SPRING RETURN RD-3 TYPE VALVE LABEL – EMERGENCY/PARKING BRAKE OVERRULE VALVE



Figure 2: PUSH-PULL PP-1 TYPE VALVE LABEL

2. From the front service compartment, locate the three valves identified on Figure 3.

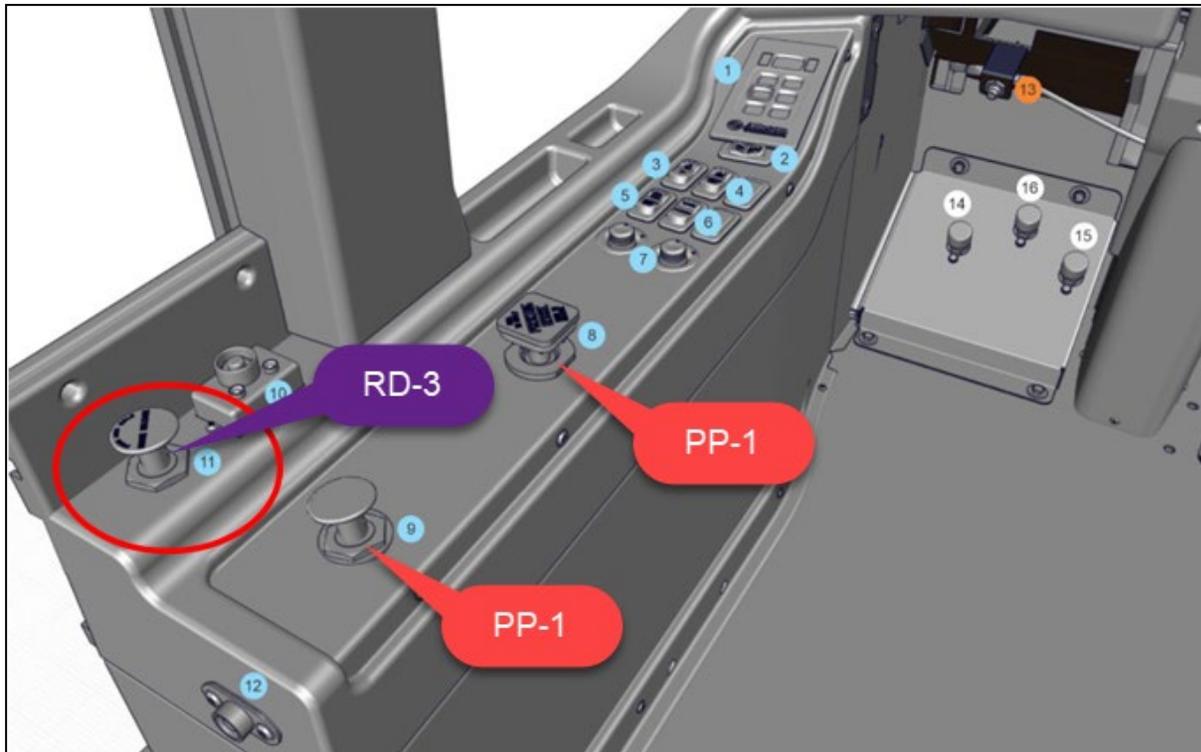
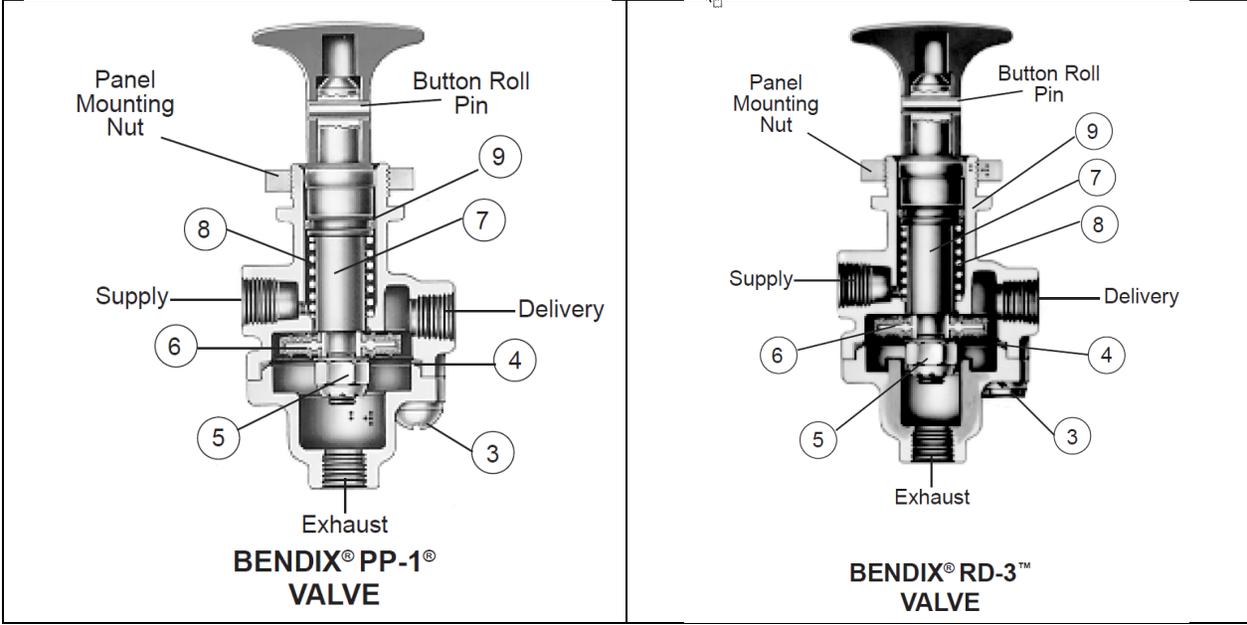


Figure 3: RD-3 VALVE & PP-1 VALVE PROPER LOCATION

3. Using a telescoping inspection mirror, identify the valve type with the label affix to the valve body. Perform this check for the three valves identified on Figure 3.
 - SPRING RETURN RD-3 valve type label: **281481 RD-3** Note: RD-3 must be held manually
 - PUSH-PULL PP-1 valve type label: **287515 PP-1**
4. Make sure each of the three valves is the of the appropriate type.
5. For each of the three locations, if an inappropriate valve is installed, have it replaced by the proper valve type.
 - a. Block and/or hold the vehicle by means other than air brakes and drain all reservoirs.
 - b. Remove the operating button. To do so, drive the button roll-pin out with a punch and remove the button.
 - c. Unscrew the panel mounting nut.
 - d. Remove the valve from the front service compartment.
 - e. Mark each air supply line and its port for similar reinstallation, then disconnect them.
 - f. Transfer the hoses and fittings on the new valve body.
 - g. Reinstall the valve similarly.



PART 2 - FUNCTIONAL TESTS

1. Perform the following tests on all involved vehicles after completion of PART 1.
2. Test the three valves on the left console (Figure 4).

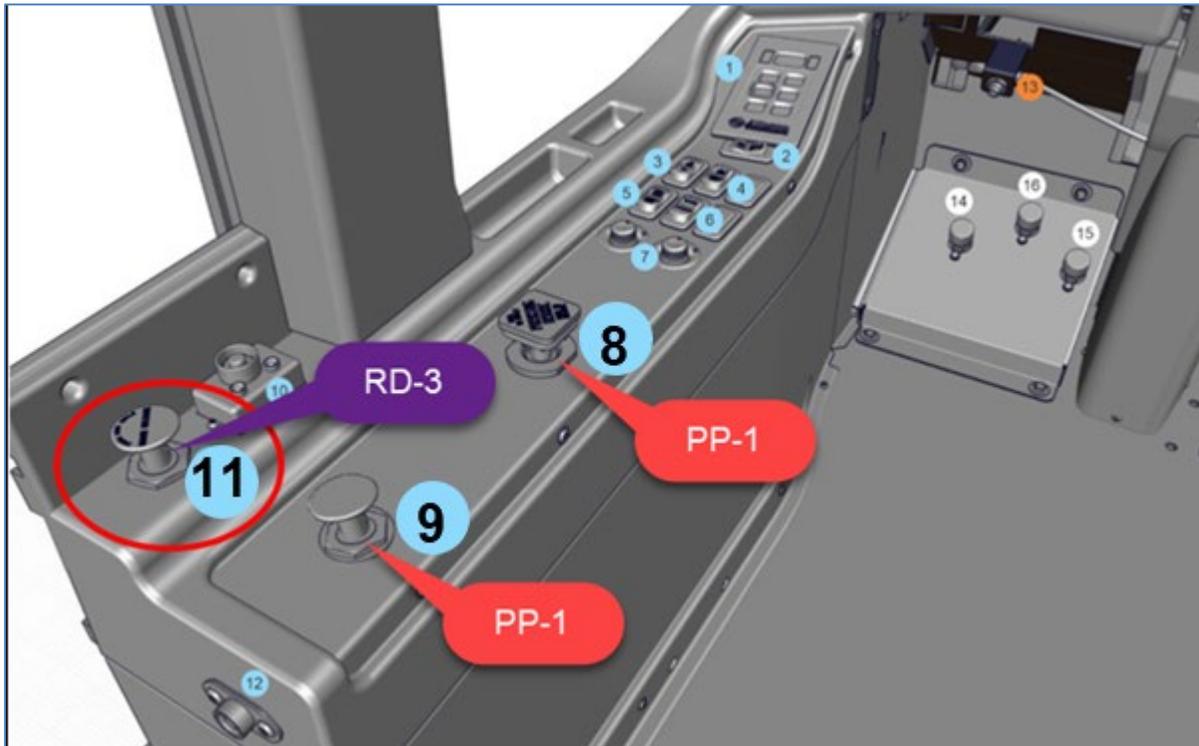


Figure 4: THREE VALVES TO BE TESTED

3. Fill-up the air system normally to the cut-out pressure

EMERGENCY ENTRANCE DOOR AIR PRESSURE RELIEF VALVE PP-1 TEST (VALVE NO. 9)

1. Close the front door.
2. Push the Emergency Entrance Door Air Pressure Relief Valve in the front service compartment for two seconds to release the air (Figure 5). The Emergency Entrance Door Air Pressure Relief Valve no. 9 on the lateral control panel **should** pop out (Figure 6).

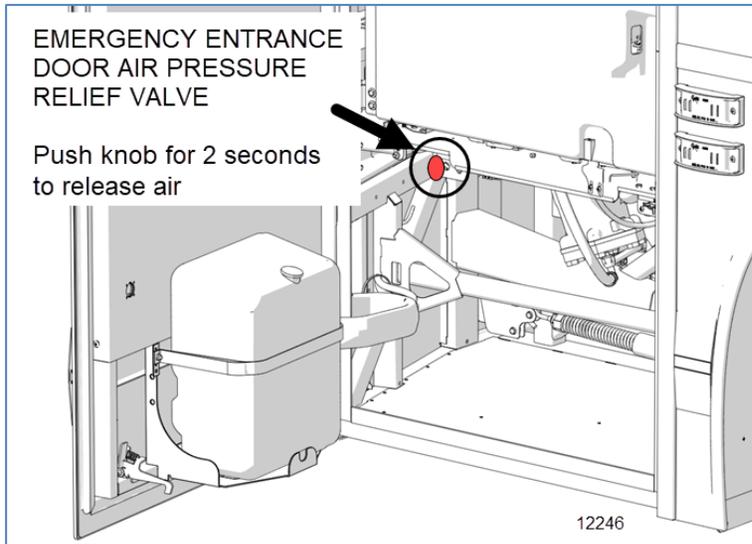


Figure 5

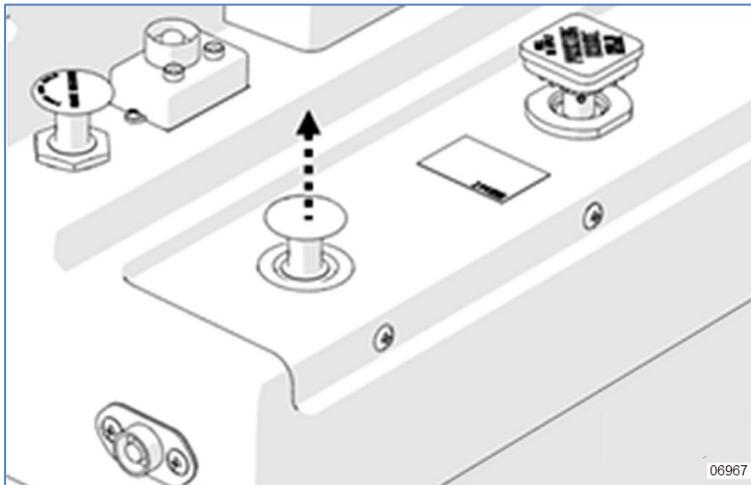


Figure 6

3. Once the air pressure is released, the entrance door can be opened by pushing or pulling with the hands.
4. Once test passed, push the Emergency Entrance Door Air Pressure Relief Valve no. 9 on the lateral control panel relief valve back to reapply air pressure and return to normal operations.

PARKING BRAKE VALVE PP-1 TEST (VALVE NO. 8)

1. Pull the parking brake valve no. 8. The valve should stay in the up position. Try to move the vehicle with light engine power on DRIVE (D). The vehicle **should** not move when the parking brake is applied.
2. Push the parking brake valve down. The valve **should** stay down and the vehicle can be moved.
3. Pump down at a normal rate the brake below 40 psig (engine off). The valve **should** pop out close to 60 psig. The valve **should not** be able to be pushed down when pressure is below 60 psig. Try to move the vehicle with light engine power on DRIVE (D). The vehicle **should not** move.

EMERGENCY/PARKING BRAKE OVERRULE VALVE RD-3 TEST (VALVE NO. 11)

1. Fill-up the air system normally to the cut-out pressure.
2. Pull the parking brake valve no. 8.
3. Momentarily push the Emergency/Parking brake overrule valve no. 11 down. The valve **should** come back in up position when released. If not, the wrong valve is installed.
4. With the parking brake still applied, push down and hold the Emergency/Parking brake overrule valve no. 11. Try to move the vehicle with light engine power on DRIVE (D). The vehicle **should** move.
5. Release the Emergency/Parking brake overrule valve no. 11. Try to move the vehicle with light engine power on DRIVE (D). The vehicle **should not** move.

PART DISPOSITION

DO NOT RETURN THE REPLACED PARTS. Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

WARRANTY

This modification is covered by Prevo's normal warranty. We will reimburse you the parts and 1 hour (1.0) of labor upon receipt of a completed A.F.A. Please submit claim via our Online Warranty System, available at www.prevo.com (under service \ warranty section). Use Claim Type: "Bulletin/Recall" and select "Safety Recall 0BSR21-307".

Should you only wish to close the safety recall (without reimbursement), fill-in the "Safety Recall Certification Sheet" provided with this bulletin and return it to our warranty department by Email at prevo.onlinewarranty@volvo.com or by fax at 418-831-9301.

OTHER

VBC Bulletin	N/A
Fail Code	12.01
Defect Code	09
Syst.Cond	R
Causal Part	640472

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