Checklist Plug Sliding Door

This checklist is based on document “20141202 Maintenance Plug Sliding”.

Report Number V Point ID		Date	
Operator / Customer		Contact person	
Location / Address		Extra contact info / Phone	
Vehicle type		Mileage	
Door type		Warranty	
Registration nr. Fleet / Body nr.		Performed by Name / Company	
Customer order No. Warranty ref.			

Purpose of visit _____

Parts Used

Article No.	Description	Quantity	Stock use Yes/No

1.1	Door leafs in closed position	Applicable	Adjusted	Approved
1	Check if the door leafs are in line with each other. Horizontal distance between door leaf and the aperture (excluding the rubber) should be 50±2mm (Measured from inside the bus).	X		
2	When closed there should be 104±2mm distance between the door leafs measured from the aluminum profiles of the door leafs (with pressure). See figure 1.1.	X		
3	Check if the vertical distances at the top and bottom of the door leafs are 50±2mm (Measured between the door leaf profile and the aperture).	X		
4	Check if a gap of approximately 4-6mm at the top between the door leafs is visible (without pressure). The door leafs should touch each other at the bottom in closed position (See Figure 1.4).			
5	Check if there is an equal gap between the door leafs (without pressure, see Figure 1.5).			

1.2	Adjustment of the catch wedge	Applicable	Adjusted	Approved
1	Check if the catch wedge is caught by the catch block when closing the door. If not then readjust the alignment of the catch wedge. If so, recheck paragraph 1.1 to see if the space between the door leafs is still 104±2mm.	X		
2	Check if the lever of the door shaft does not touch the catch wedge when in closed position.	X		

1.3	Door shafts	Applicable	Adjusted	Approved
1	Check if the top bearing bush and pivot aren’t broken or worn out. If so replace part.	X		
2	Check if the bottom bearing bush and pivot aren’t broken or worn out. If so replace part.	X		
3	Check if there is no tension on the door shaft. The pivots should hold door shaft in place without vertical play and without too much pressure. If so, adjust the bottom support and door shaft bracket (top).	X		
4	Check if the guide roller is not broken or worn out. If so replace part.	X		
5	Check if the distance between the bottom lever of the door shaft and the guiding rail is 4-8mm in closed position, otherwise re-adjust the door shaft height.	X		
6	Check if the lever of the door shaft does not touch the catch plate when in closed position. If so, re-adjust the door shaft height.	X		

1.4	Door leafs in open position	Applicable	Adjusted	Approved
1	Put the door in a 100% open position (with pressure). The bearing housing bushes should touch the cushioning rubber on the frame of the door mechanism	X		
2	Check if “Distance X” between the aperture and the door arm of both door leafs are equal.	X		
3	Put the door leafs in open position and check if the roller of the door shaft support touches the end of the guiding rail. If not, the door leaf doesn’t swing fully open at the bottom. This can be adjusted with the connection rods.	X		
4	The end stop of the door shaft should touch the door shaft support when door is open.	X		

1.5	Adjust the door tob e parallel to the aperture	Applicable	Adjusted	Approved
1	Check if the door leafs are parallel with the step edge when fully open and without pressure. When closed, the door leaf can be put straight by the catch wedge, but should be straight on its own. Adjust the door leaf when not straight at fully open position (See Figure 1.13).	X		
2	Check if the side seals of the door leafs are fitting well to the side of the aperture. The outward side of the side seal should be relatively straight and not bend inwards or leaf a gap between the side seal and the aperture. If not, then adjust the inward/outward position of the door mechanism or door shaft at the bottom support, depending on the corner that doesn’t align with the aperture.	X		

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1.6	Soft stop door mechanism	Applicable	Adjusted	Approved
1	Check if the end stop is the right distance from the frame according to Figure 1.17 - figure 1.22 depending on the situation.	X		

1.6	Reed switch	Applicable	Adjusted	Approved
1	Check if the reed switch open on the close side of the cylinder is adjusted in the middle of the range when the door is in closed position (with pressure).			
2	Check if the reed switch close on the open side of the cylinder is adjusted in the middle of the range when the door is in open position (with pressure).			

1.7	Tension steel cables	Applicable	Adjusted	Approved
1	Check the steel cables with a tension gauge. The tension should be within 260-310 Newton. (Doors in half open position and without pressure).If necessary adjust cable length on spanner.	X		

1.8	Greasing bearing housing	Applicable	Adjusted	Approved
1	- Greasing of the bearing housing. The housing is greased before delivering. (Advice: *multipurpose grease, Q8 Rembrandt EP-2*). - Both bearing housings have to be refilled every year (Normal use, 20 gr. Grease.) - First 10 gr. grease after moving the door wing a few times, again 10 gr. grease).	X		

1.9	Electric actuator	Applicable	Adjusted	Approved
1	Check if the surface between the cover strip (3) and the aluminum profile of the actuator is clean from dirt and other impurities. (When cleaning do not use any aggressive cleaning materials and fluffy cloths.	X		
2	Remove the cover strip and check if the spindle axis have a thin coating of grease. If not, then follow these steps: 1. Move the carrier (1) to the middle of the actuator. 2. Remove the clamps (2) at the end of the actuators and remove the cover strip. 3. Grease the spindle axis and the inside of the actuator evenly over the full length of the actuator. 4. Move the carrier a few times to each side. 5. Put the cover strip back in place and screw the clamps. *Note: Use lubricant HOERBIGER-ORIGA-Fett 2 (HO-grease 2 identification no. #15071 tube 45 gr). The shaft bearings don't need greasing.*			

1.10	Filter regulator	Applicable	Adjusted	Approved
1	Locate the filter regulator if present and check if the clear bowl of the filter regulator is not full. When full press the bottom release drain nipple upwards until the clear bowl is empty.	X		
2	In case the filter regulator is a Camozzi instead of an older Parker. The Camozzi filter regulator is semi-automatic meaning the filter will drain itself when the pneumatic pressure drops below 0.3 bar (4.3 PSI) and the drain is also turned open. It is advised to always keep the drain closed so the drain will not spill dirt over vital parts of the bus, depending on the filter regulator location.			
3	Check if the pressure of the pneumatic system is between 8 ± 1 bar.	X		

2.1	Operations and controls	Applicable	Adjusted	Approved
1	Open cycle, speed and cushioning (nominal 3.5 sec). If the cycle speed is off, readjust the cushioning by adjusting the Wabco unit or the cylinders when the system doesn´t have a Wabco control unit.	X		
2	Closing cycle, speed and cushioning (nominal 3.5 sec). If the cycle speed is off, readjust the cushioning by adjusting the Wabco unit or the cylinders when the system doesn´t have a Wabco control unit.	X		
3	Check the pneumatic system for leakage during opening and closing.	X		
4	Check the electric system by looking for short circuits or damages.	X		
5	Check if all fasteners are properly tightened (See chapter Error! Reference source not found.).	X		

2.1	Operations and controls	Applicable	Adjusted	Approved
1	Check emergency buttons.	X		
2	Check pneumatic obstruction detection			

This door system has been checked, approved and signed off by:

Name: _____

Date: _____

Paraph: _____