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# Technical Bulletin TB1813, Rev B

## Hopper Rear Door Cylinder Retainer

Series	Class	ECM	Release date
V-Range	Class 1 = Immediate	724602	05/03/2024

### 1 Introduction

This bulletin supercedes TB1776 and advises of a potential safety concern with the hydraulic rear door cylinder pivot pin of the V range truck mounted sweepers. Occasion has arisen where the pin securing the hydraulic rear door cylinder has failed which may cause the door to drop to its vertical position.

The pin **must** be inspected to ensure that it is not seized or broken, and a retaining bracket **must** be fitted as an extra precaution to reduce the risk of injury in the case of a pin failure.

Please refer to the attached form detailing the inspection and confirmation requirements, once completed this **must** be returned to Bucher Municipal Ltd at [feedback.uk@buchermunicipal.com](mailto:feedback.uk@buchermunicipal.com).

This Technical Bulletin is phase one of a two phase process. Bucher Municipal Limited will be in touch shortly regarding the changing of the pin securing the hydraulic rear door cylinder to a new revision. Please refer to TB 1816 for more detail.

### 2 Affected Vehicles:

Affected machines are between the manufacturing sequence numbers 6699 to 11420 (December 2014 to December 2020 build date)

### 3 Parts:

Part number	Description	Quantity
7078207	Retaining Bracket W/Assy	1

### 4 Standard Repair Time:

30 minutes (unless workshop time is required to replace a pin).

### 5 Deadline:

The procedure must be carried out immediately.

### 6 Warranty conditions:

After receiving the warranty claim, Bucher Municipal Ltd will reimburse the costs in line with this TB and standard warranty terms and conditions.

### 7 Disclaimer

#### 7.1 Consequential damage

In the event of failure, Bucher Municipal accepts no responsibility for consequential damage where the cause of that damage has been through the improper use of the machine or where operating instructions have not been followed or where the machine has been used by personnel without proper qualification and training.

#### 7.2 Safety

The purpose of this Technical Bulletin is to ensure that the risks and processes related are known and understood. If you require further information regarding the safe operation of your Bucher Municipal machine, please refer to the Frequently Asked Questions or contact your Bucher Municipal representative.

#### 7.3 Competence

Only trained and competent personnel should carry out the work. Please contact your Bucher Municipal representative for further information on the competences required or training that may be available.

#### 7.4 Working conditions

Ensure that the machine is safely parked, on firm ground and ensure that safety regulations are observed.

## 8 Procedure



Retaining Bracket

### Fitting Procedure.

Safe working practices should be adhered to throughout.

A video is available accessed by the QR code below illustrating the fitting instructions:



1. With the vehicle on firm level ground, raise the hopper and support on the safety prop.
2. Open the hopper door so that it hangs vertically, with no load on the door cylinder.
3. Ensure that the vehicle is fully switched off and the key is removed from the ignition so that the hydraulic system cannot be accidentally energised.
4. Remove the retainer and pin from the rod end of the door cylinder.
5. Prior to fitment of the retaining bracket, the hydraulic rear door cylinder pivot pin should be inspected from ground level for failure or seizing.
  - Firstly check by moving the cylinder up and down in the vertical plane that the cylinder has not seized. If this is not possible the pin **must** be replaced.

- Secondly check that the pin has not broken either on one, or both sides by attempting to move the cylinder by hand from side to side in the horizontal plane. If there is movement, examine the pin for failure either side of the cylinder. If it is broken it **must** be replaced.
- In the event that the pin requires replacing, this is a workshop task.
- The parts required are:

7093442	Pin – Hydraulic door cylinder pivot	1
93085609-0	Nut Nyloc M16c A2	2
93213014-0	Washer Plain M16 A2	2
29128-1-B	Bush	4

6. Insert ignition key, power JVM and use rear door control to fully retract rear door cylinder (using door open controls). This will allow easy fitment of the retaining bracket.
7. Switch vehicle ignition off and remove key from ignition.
8. By hand, raise the cylinder rod upwards to allow the retaining bracket to be inserted over the cylinder rod. Locate the retaining bracket into the hopper aperture with the circular cut outs against the linkage pivot – See Figure 1.
9. Insert ignition key, power JVM and use rear door control to extend door cylinder so that the cylinder rod end protrudes just past the rear face of the hopper.
10. Switch vehicle ignition off and remove key from ignition.
11. Elevate cylinder rod end and use a tie wrap across cleats to temporarily support the rod end - See Figure 2.
12. With ignition power on, extend the cylinder rod end until the rod end eye aligns with the door linkage, refit the pin and door linkage assembly to the rod end of the door cylinder. Cut and remove the temporary tie wrap.
13. Close the hopper door and lower hopper.
14. Complete the attached inspection confirmation form and return to Bucher Municipal Limited.

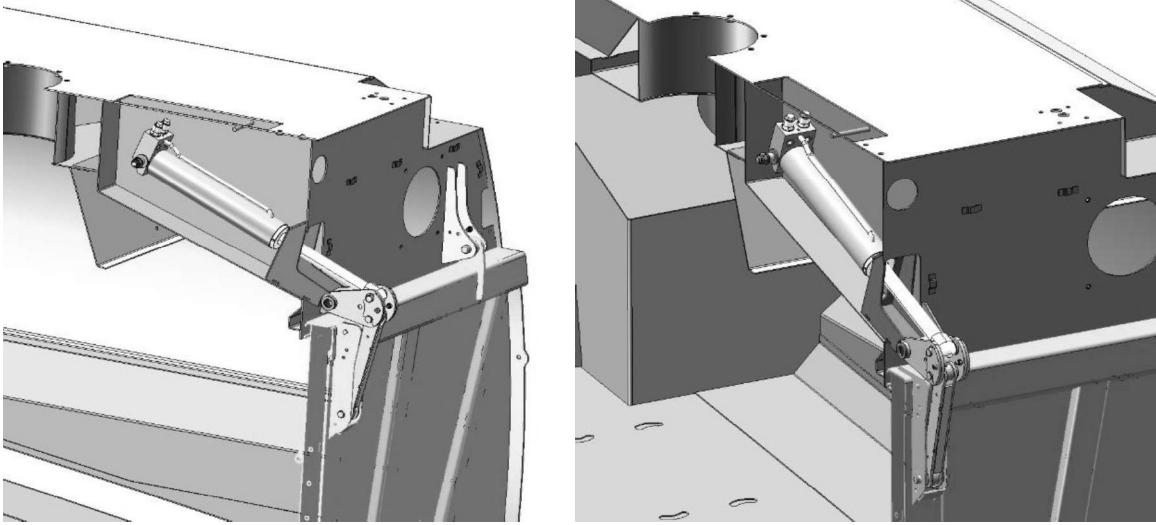


Figure 1 – Location of Retaining Bracket installed.



Figure 2 – Temporary support for cylinder rod end.

## 9 Additional information



Always ensure that no personnel are in the load discharge area when opening or closing the rear door.

If personnel must enter the load discharge area, for example whilst cleaning the hopper, the hopper should always be raised and secured on the hopper prop with the rear door open and hanging vertically. Under no circumstances should personnel enter the load discharge area when the door is not hanging vertically. Please refer to TB 1811 for more detail.