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IMPORTANT SAFETY RECALL NOTICE

This notice applies to the attached list of street sweepers

June 3, 2024

Ref: Safety Recall - (NHTSA Recall No. 24V296)
Johnston VT651, VT652, VS651, VS652, VT801, and VS802 sweepers
Bucher V65t sweeper

This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act. Bucher Municipal North America has decided that a defect which relates to motor vehicle safety exists in certain Johnston and Bucher sweepers: specifically, Johnston VT651, VT652, VS651, VS652, VT801, and VS802 Series sweepers and Bucher V65t Series sweepers (collectively V-Range Series) manufactured between December 2014 and December 2020.

Our records show we have supplied the attached list of affected V-Range Series street sweepers to you as our appointed dealer. If the attached list is not correct per your records, please contact Jeremy Miller at 1-704-658-1333 extension 124 or Chris Ruggieri at 1-704-658-1333 extension 104.

Reason for Recall
The pin securing the hydraulic rear door cylinder can corrode, seize and/or break in some machines in this V-Range Series. This defect can in certain circumstances cause the pin to fail, causing the rear door to fall. There has been one incident where a pin failed in the rear door cylinder, causing the door to fall and resulting in a fatal injury to an operator working under the door. Investigations to date suggest that the coating on the pin may not prevent corrosion and could lead to seizing and/or breaking when the door is in an open position. Accordingly, particular care should be taken to avoid standing under the rear open door when operating or maintaining the sweeper machine.

If the pin seizes and/or breaks when the door is in an open position, the machine operator and/or persons near the machine could suffer serious injury or death.

Please be reminded it is violation of Federal law to sell or lease the vehicles covered by this notification until the recall remedy has been performed on those vehicles.

Remedy
On June 17, 2024, we anticipate that owners will be notified by mail about the recall. After they are notified, please contact the vehicle owners within two (2) weeks to arrange a date to make the required repairs on the vehicles affected by this recall. There is no cost to the owners for the repairs.

To repair the defect, you will need to replace the pin, modify the vehicle with a new component and apply new warning decals. Specifically, Bucher requests you replace the pin securing the rear hydraulic cylinder with a new high strength stainless steel pin. We have enclosed a technical bulletin, **TB1816**, further detailing this process. You will also install a retaining bracket to the rear door to prevent the door from falling. We have enclosed **TB1813** further detailing this process. Finally, you will apply two new warning decals to the rear of the vehicle and provide the owner with updated instructions for load discharge and cleaning process and updated maintenance schedules. We have enclosed **TB1811** further detailing this process.

In order to make these repairs, Bucher will send to you repair kits for each of the affected vehicles, to include a replacement pin, retaining bracket, new warning decals and updated instructions and maintenance schedules. Refer to the enclosed technical bulletins for detailed instructions to complete these repairs.

We request you carry out this work within four (4) weeks of receiving the repair kits, which we expect to be available by June 21, 2024. We estimate it will take six (6) hours to install the parts.

We further request that you notify us by email with the enclosed confirmation form when the repairs have been completed. Please email to: bmnawarranty@buchermunicipal.com

Contact Information
If you have any questions or concerns throughout this process, please contact Jeremy Miller at 1-704-658-1333 extension 124 or Chris Ruggieri at 1-704-658-1333 extension 104.

Reimbursement
Reimbursement will be made via the normal dealer warranty process including mileage reimbursement.

Safety is our highest priority. We intend to complete this recall in a manner that causes the minimum disruption to your business. Your anticipated assistance with the recall is appreciated.

Yours sincerely,

Todd Parsons
General Manager

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Technical Bulletin TB1816, Rev A
Hopper Rear Door Pin Replacement

Series	Class	ECM	Release date
V-Range	**Class 2 = Next intervention**	**724523**	**08/03/2024**

1 Introduction:

This bulletin follows on from TB1813 and details the second phase of a process to replace the pin securing the rear door opening cylinder of the V range of sweepers. Occasion has arisen where the pin securing the hydraulic rear door cylinder has failed owing to corrosion and seizing of the pin, which may cause the door to drop to its vertical position.

A replacement pin has been designed from a high strength, high hardness, corrosion resistant stainless steel to eliminate the potential for corrosion to affect the pin integrity over time. The new pin is from polished and ground stainless steel and silver in colour whereas the old pins had a black finish. There is also an indent machined into one end of the new pin so it can be distinguished from the original even when installed see Fig 1.

The safety retainer bracket fitment and pin inspection required by TB1813 must have been carried out. In addition, the pin should be replaced at the next service interval as detailed below. If the pin has already been replaced during the TB1813 inspection with a stainless steel pin, there is no need to replace it again.

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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
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

4 Standard Repair Time:

2 hours

5 Deadline:

The replacement pin must be fitted at the next service point at the latest.

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 maintenance or operation of your Bucher Municipal machine, please contact your Bucher Municipal representative.

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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

Fig 1 Pin – Hydraulic cylinder pivot

Fitting Procedure.

Safe working practices should be adhered to throughout.

1. With the vehicle on firm level ground, raise the hopper to the fully tipped position and support on the hopper safety prop. see Fig 3
2. Open the hopper door so that it hangs vertically, with no load on the door cylinder. See Fig 3
3. Remove meshes from the hopper. If mesh shakers are fitted, the air pipes will need to be disconnected.

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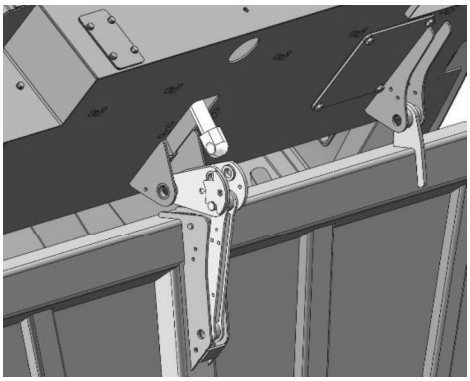

4. Remove the retainer and pin from the rod end of the door cylinder see Fig 2. Please retain the pin to be re-inserted.

Fig 2

5. Fit stay to support the rear door using the existing fixings by bolting it to the recirc access port in the centre of the hopper. If the recirc water option is fitted the stub pipe will need to be removed to allow the stay to be fitted Fig 4.

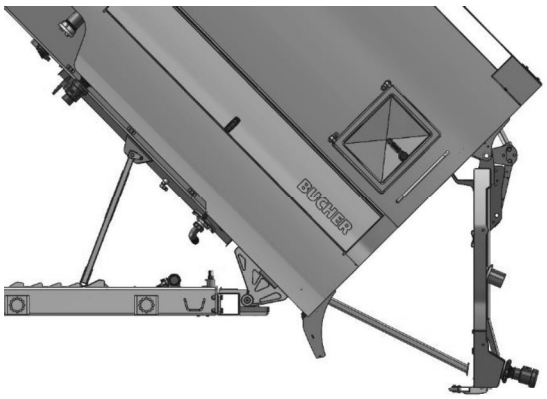

Fig 3

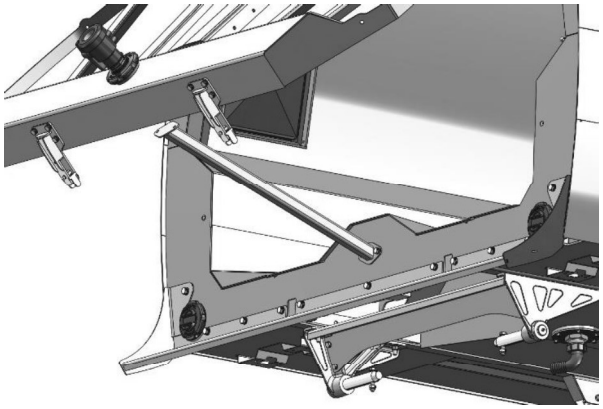

Fig 4

6. Lower hopper ensuring the door stay is correctly supporting the door allowing access to the inside of the hopper.
7. 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.
8. Using suitable steps access the inside of the hopper.
9. Remove the two nyloc nuts securing the door cylinder retaining pin either side of the rear door ram box.

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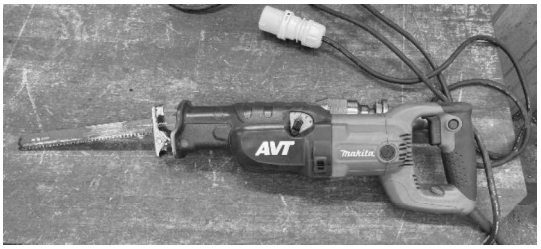
10. Pin Removal

There are several ways to remove the pin from the hopper and the cylinder.

a. If the pin is free to move, it can be drifted out using a suitable drift.

b. If the pin is seized, then there are several options for removing it:

1. Using a reciprocating saw on a slow setting, ideally with around 30mm of stroke, cut the pin either side of the cylinder block from the top of the machine. The saw requires a carbide tipped 300mm long blade but it will need to be cooled with cutting fluid or water during the cutting process. (The body will need to be accessed from a suitable platform at the rear of the machine) This method is not possible with a VT801 machine as the saw will not reach.



2. Alternatively, from inside the hopper cut each end of the pin off using a cutting disk on a grinder so that the pin is cut off flush with the bosses in the body. Centre pop the centre of the pin each end and using a high-speed drill, drill pilot holes Ø6mm to a depth of 22mm. Gradually open the hole up to 20mm using increasing size drill bits to release the cylinder.
A step drill may be used to open the hole to as close to 20mm as possible.

3. A hydraulic pin puller can also be used to remove the pin if available, by screwing onto the M16C thread of the pin connected to a suitable powerpack.

11. Once the cylinder is clear of the bosses in the body, remove the cylinder from the ram box by undoing the two hydraulic connections, connecting the hoses together using the straight coupling provided and blanking off the cylinder ports using the plugs and cap nuts provided.
12. The remaining parts of the pin depending on if it is sawed or drilled can now be knocked out of the two bosses in the hopper.

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13. The remainder of the pin in the cylinder head can now be pressed out or preferably drilled out on a bench press or bench drill. Do not heat the cylinder to try and remove the pin.
14. Drill out the cylinder to Ø25.00 - Ø25.05 mm to allow the fitment of 4 bushes into the cylinder head. If the pin is removed easily from the cylinder, this step is not mandatory.
15. Refit the cylinder using the new pin provided and replacement hardware. The pin should be greased before fitment. Reconnect the hoses.
16. Refit the meshes, reconnect mesh shaker air pipes if fitted.
17. Lift the hopper and support on the hopper safety prop in the highest position. Reconnect the rod end of the cylinder and then remove the rear door stay.
18. Fully test the vehicle before returning to service

Tools (rear door stay supplied on demand)

7093633	Rear door stay	1
09570380-0	Straight Coupling Male M14 x 1.5	1} supplied in kit
09572101-0	Plug Female - Tube O/D = 8mm	2} supplied in kit
09570007-0	Cap Nut - M14 x 1.5 (Tube O/D = 8mm)	2} supplied in kit

9 Additional information

Hearing protection should be worn in the hopper when drifting out the pin

Eye protection should be worn at all times when drilling the pins in the hopper

Use suitable equipment when working at Height.

The rear door stay is designed to hold the door open with the cylinder disconnected. Do not power closed the door with the rear door stay in place.

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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.

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)

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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.

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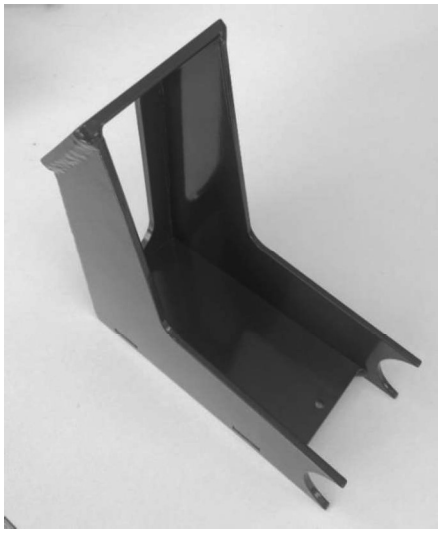
8 Procedure



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.

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- 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.

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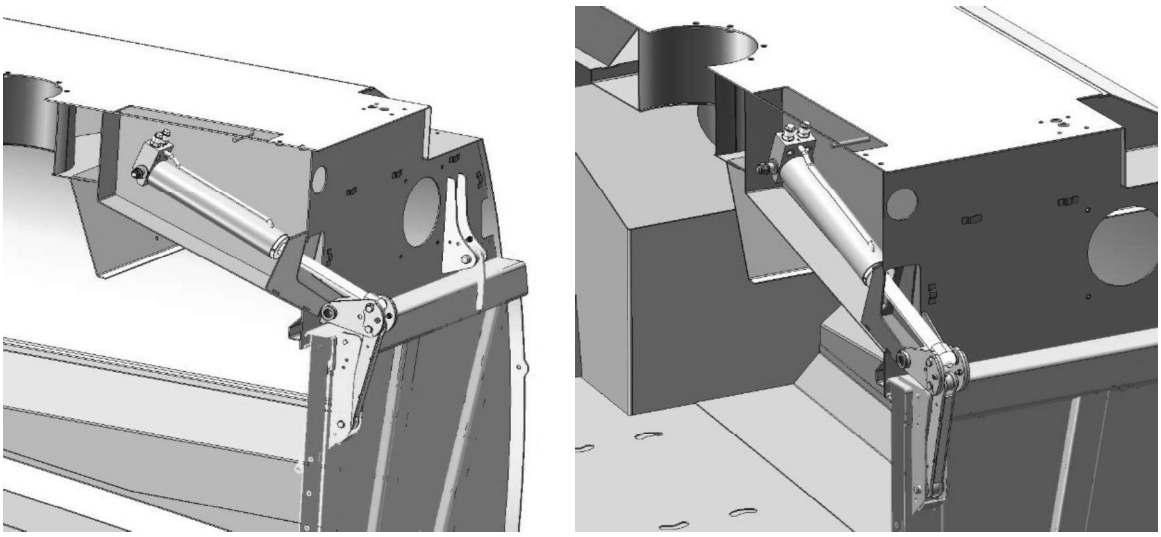

Figure 1 – Location of Retaining Bracket installed.

Figure 2 – Temporary support for cylinder rod end.

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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.

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Technical Bulletin TB1811, Rev A

Revised Operator and Maintenance Instructions for load discharge area working

Series	Class	ECM	Release date
V-Range CF -OF Range	**Class 2 = Next intervention**	**724520**	**23/02/2024**

1 Introduction:

The purpose of this bulletin is as follows:

1. to communicate the updated operator and maintenance instructions for the load discharge and cleaning process on the V Range and CF- OF Range of sweepers
2. to advise of two additional warning labels that must be fitted to the rear of the vehicle; and
3. to outline additional checks that are required on Service C relating to the rear door and body (hopper) hinge pins .

2 Affected Vehicles:

The operator instructions are relevant to all V range and CF-OF sweepers and the bulletin is targeted at machines from machine serial number 6699 onwards (December 2014).

3 Parts:

Part number	Description	Quantity
7094009	Label set	1

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4 Standard Repair Time:

5 minutes

5 Deadline:

The label should be fitted upon receipt.

6 Warranty conditions:

After receiving the warranty claim, Bucher Municipal Limited 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 Limited accepts no responsibility for consequential damage where the cause of that damage has been through the improper use or maintenance 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 - contact your Bucher Municipal representative.

7.3 Competence

Only trained and competent personnel should carry out work pertaining to operating, cleaning and maintenance of the vehicles. Please contact your Bucher Municipal representative for further information on the competences required or training that may be available.

7.4 Working conditions

Before routine cleaning of the vehicle or carrying out any maintenance checks, ensure that the machine is safely parked, on firm level ground and ensure that safety regulations are observed.

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8 Procedure:

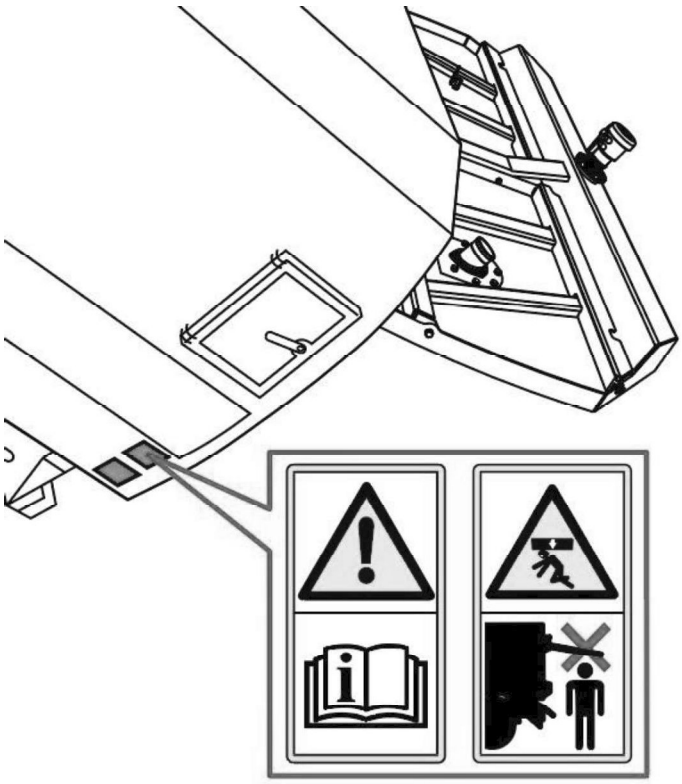

Figure 1 – Location of labels installed both sides

Fitting Procedure.
Safe working practices should be adhered to throughout.

1. With the door in a fully closed position and the body (hopper) down, clean the surface and affix a label to each side of the body in the position shown (Figure 1).

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9 Additional information:

The below are extracts from the operating and maintenance instructions concerning the safety aspects around the load discharge operation. These have been updated so please read through these instructions carefully, make all operators aware of the new guidance and ensure the new guidance is reflected in your local safety instructions and documentation.

Chapter 5 LOAD DISCHARGE AND AUTO BODY PROP

Before carrying out the load discharge operations ensure the following safety aspects are observed:

Ensure the machine is standing on firm, level ground and there are no obstructions above or to the rear before raising the body.

Ensure the rear door is fully open before raising a loaded body.

Under no circumstances should any personnel be in or near the load discharge area when opening or closing the rear door.

Under no circumstances should personnel enter the load discharge area when the door is not hanging vertically.

Do not enter the zone underneath the rear door with the body in the lowered condition. Cleaning of the body meshes and the rear door should be carried out with the body in the raised position and the door hanging vertically.

If access inside the body is required for maintenance purposes (e.g. changing the wear plates) in a workshop environment, the rear door hinges, lift cylinder, pins and relay links should first be inspected to ensure that they are in a serviceable condition before entering the hazard zone beneath the rear door. Operators must not go near or under the door unless it is hanging in the vertical position. For any maintenance work that requires the door to be raised in the open position, the door should be supported with a prop or stay.

Ensure the body rests on the auto prop when the body is left in the raised position, or when working under the body or cowl.

Do not jerk or shake the vehicle in order to aid body discharge or drive with the body raised.

Do not raise a loaded body on any gradient greater than 5% as stability could be affected.

Do not tip the body when fully loaded to clear blocked inlet ducts. Tipping the loaded body without opening the rear door could cause load movement and the vehicle to become unstable.

A safety interlock prevents the body from being tipped without the handbrake being applied.

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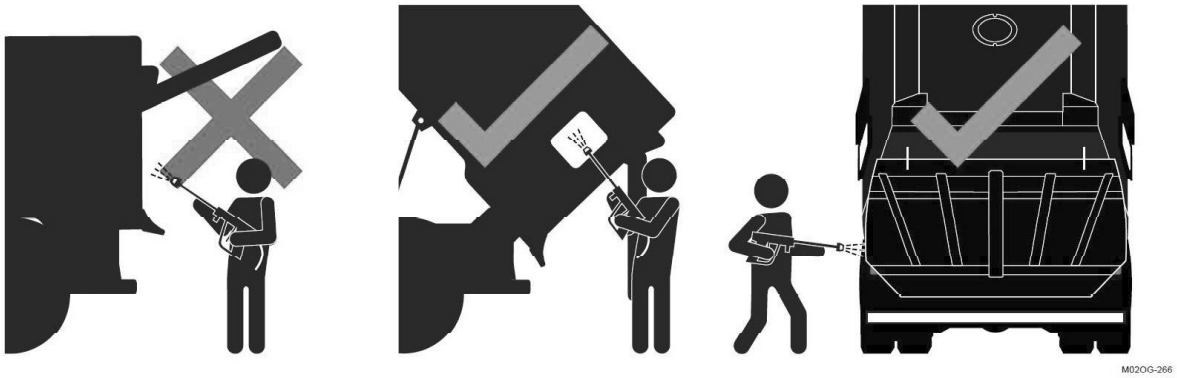
Chapter 5 END OF DAY CLEANING

CAUTION
After the load has been discharged, lower the body to rest on the prop.
A warning light on the JVM illuminates and an audible warning will sound when the body is not fully lowered, or the rear door is not closed correctly.



The body must be cleaned out with it resting on the prop and the door hanging in a vertical position. The operator should stand either side of the door to clean the body. Do not enter the zone directly underneath the door as there is a risk of debris falling out the body during the cleaning process. The side access doors can be opened to gain access to clean the rear meshes and into the body whilst providing a degree of shielding for the operator. A facemask should be used when using high pressure washing equipment

Do not direct high pressure washdown equipment, directly onto the engine, or ancillary electronic or electrical control systems, care should also be taken when washing the paintwork.

The use of Needle stick gloves is recommended when working with the sweeper.

Chapter 8 MAINTENANCE SCHEDULES

Service C - Every 2000 Hours or 1 Year - To be carried out by workshop personnel.

1. Carry out 1000 hour service; plus:
2. Drain and refill hydraulic reservoir.
3. Clean/replace suction filters and refill hydraulic reservoir.
4. Check valve clearances on the auxiliary engine if applicable.
5. Oil filler and dipstick O-rings, change.
6. Drain and refill 'Z' drive gearbox.
7. Replace Auxiliary engine drive belts.
8. Drain and refill Supawash pump (if fitted).
9. Inspect the rear door and body hinge pins for wear, corrosion, any sign of seizure and replace as required.
10. Inspect the four pins on rear door lift cylinder and relay mechanism for wear, corrosion, any sign of seizure and replace as required.

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