

Operator Instruction Supplement

Mercedes-Benz Sprinter 1-Way Tipper

March 2019 on





VFS (Southampton) Ltd.

Unit 8, Barton Park Industrial Estate
Chickenhall Lane
Eastleigh
Hants
SO50 6RR
Tel: 023 8065 1704
Fax: 023 8062 0999
Email: parts@vfs.co.uk

The illustrations, technical information, data and descriptions contained in this publication, were correct at the time of going to print. VFS (Southampton) Ltd reserve the right to make any changes necessary in line with continuous development and improvement.

No liability can be accepted for any inaccuracies or omissions in this publication, although due care has been taken to make it as complete and accurate as possible.

The publication may not be duplicated, reprinted, stored in a data processing system or transmitted by electronic, mechanical, photographic or other means, or recorded, translated, edited, abridged or expanded without the prior written consent of VFS (Southampton) Ltd.

The same also applies for parts of this manual and their use in other publications.

Table of Contents

Introduction	Page
About this Operator Instruction Supplement	3
Parts and Accessories	4
Warranty	4
Safety First	5
 Tipper Controls	
Isolation Switch	6
Pendant Controller	6-7
Emergency Stop Switch	7
Tailboard	8-9
Sideboards	9
Tipping	10
Body Prop	11
 Maintenance	
Daily Driver Checks	12-13
Monthly Maintenance Checks	13
Annual Maintenance Checks	14
Hydraulic Oil Level Checks	15
 Fuses	
Fuse Locations	16
 Vehicle Care	
Cleaning the Exterior	17
Repairing Minor Paint Damage	17
 Towing	
Tailboard Protection	18
 Fault Finding	
Fault Finding	19-20
Aftersales	20

Introduction

ABOUT THIS OPERATOR INSTRUCTION SUPPLEMENT

This Operator Instruction Supplement must be referred to in addition to the standard Mercedes-Benz Sprinter owner's Handbook. Read and understand both and familiarise yourself with the vehicle before operating the vehicle on the road.

Note: This Operator Instruction Supplement only details the features on the Tipper that are not covered in the standard vehicle owner's handbook, therefore it is imperative that this supplement is kept with the standard vehicle owner's Handbook.

Note: Always use and operate your vehicle in line with all applicable laws and regulations.

Note: Pass on this Operator Instruction Supplement when selling your vehicle; it is an integral part of the vehicle.

SYMBOLS IN THIS HANDBOOK

WARNING



You risk death or serious injury to yourself and others if you do not follow the instructions highlighted by the warning symbol.



When you see this symbol, read and follow the relevant instructions in this handbook.

CAUTION



You risk damaging your vehicle if you do not follow the instructions highlighted by the caution symbol.

Introduction

PARTS AND ACCESSORIES

Spare Parts and Accessories are available from: VFS (Southampton) Ltd,
Unit 8, Barton Park Industrial Estate, Chickenhall Lane, Eastleigh SO50 6RR

Tel: 023 8065 1704

Fax: 023 8062 0999

Email: parts@vfs.co.uk

Detailed Spare Parts and Accessories can be found in the relevant section on-line at
www.vfs-parts.co.uk

WARRANTY

Full warranty exists on all parts and workmanship associated with the Tipper body conversion for 3-years / unlimited miles. Warranty is only valid if the Tipper is operated in accordance with the Operator Instruction Supplement and current Road Traffic Act Legislation. Warranty claims for parts associated with the Tipper body conversion should be made direct to VFS Ltd.

VFS (Southampton) Ltd.

Unit 8 Barton Park Industrial Estate

Chickenhall Lane

Eastleigh

Hants

SO50 6RR

Tel: 023 8065 1704

Fax: 023 8062 0999

Email: parts@vfs.co.uk

SAFETY FIRST!

WARNING



Tipping is a potentially hazardous operation. It is essential that all operators fully understand the procedures detailed in this Operator Instruction Supplement and are aware of the Tipper controls on the vehicle. Health and Safety legislation must be strictly applied. UK Construction & Use Regulations must be observed when operating the vehicle on the public highway.

The basis for Health and Safety law in the UK is the Health and Safety at Work Act 1974 and its amendments. However certain EU Law is now applicable; all of which must be complied with before, during and after the use of this vehicle and the Tipper bodywork supplied with it. The Tipper bodywork supplied with this vehicle is recognised as a machine, therefore Health and Safety legislation applicable to machinery must be recognised in addition to general Health and Safety law.

It is the responsibility of the Driver, Owner and/or Operator to establish what Health and Safety legislation applies when using this vehicle and that only persons trained and qualified in line with that legislation be allowed to use this machine.

Depending on the circumstances and the territory that the vehicle is being used, other legislation may apply. Always check that existing legislation has not been updated or superseded, and whether new legislation has been introduced.

Tipper Controls

Isolation Switch

Electrical Isolation Switch located on LHS of Tipper Subframe

ON



OFF



Tipper Control & Wanderlead – LHS “B” Pillar



Tipper Controls

Tipper Control

Press “UP ARROW” to “Raise”



Press “DOWN ARROW” to “Lower”



Emergency Stop

Press to “Engage”



Rotate clockwise to “Release”



Tipper Controls

Rear Tailboard configuration (mode)

The tailboard is designed to operate in two different configurations (modes),
The configuration must be determined prior to tipping.

Tip Thru' - (Top Hinged)



Tip Over – (Bottom Hinged)



Use Tip-Thru ' mode :

To open tailboard :

Locate the yellow remote operating handle (in “locked” position) and pull outward and forwards until it stops.



To close/lock tailboard :

Push the tailboard closed.
Holding the board in the closed position.
Return the remote release lever to the “locked” position.



Check the lower remote release handle is locked and the tailboard is secure.

Tipper Controls

Use - Tip-over mode :

To open Tailboard :

Hold the top of the tailboard
and release the rearmost latch,
Repeat the action for the other latch.
Lower the tailboard - **Do Not Drop.**



To close/lock Tailboard :

Rotate upwards to its closed position
Close the latches

Check for Security !



To open Sideboard :

Hold the top of the sideboard
Release the front latch.
Repeat the action for the rear latch
Lower the sideboard – **Do Not Drop**



To close/lock Sideboard:

Lift the sideboard and rotate it until closed
Close the latches

Check for Security !



Tipping Operation:

To “RAISE” the Tipper Body :

Check there are no overhead obstructions i.e. cables etc.

Choose Tip mode and open the tailboard.

Locate the Tipper Isolation Switch

Select the ‘ON’ position.

Control the tip using the Controller

Press the “RAISE” button

Raise the body to the required height.

The body will automatically stop tipping when the ram is fully extended.

The tipping can be stopped at any time by releasing the “RAISE” button.

A buzzer will sound when the “RAISE” button is pressed.

To “LOWER” the Tipper Body :

Ensure no obstruction around the Tipper

Press the LOWER button to lower the body.

Keep depressed until the warning sounder ceases

Close the tailboard ensuring that it is securely locked.

Switch the Tipper Isolation Switch to the ‘OFF’ position.

Stuck Load !!

Never “Jolt” the Tipper to release stuck loads

Lower the Tipper and manually release the load

Raise Tipper to release residual load

Body Prop

WARNING



Never Stand or Work underneath an Un-propped body.

Deployment of the Body Prop :

Park the vehicle on a firm and level surface, and apply the handbrake.

Raise the Tipper bed.

Raise the body prop by pulling up on the handle.

Rotate the body prop until it stops.



Lower the body until it rests on the prop.

Turn the Isolation Switch to the 'OFF' position.

Remove the keys from the vehicle ignition.



Stowing the Body Prop :

Stowing the Prop is a reversal of the deployment procedure



Maintenance

Driver Checks and Maintenance Items:

CAUTION



It is imperative that the recommended Driver Checks and Maintenance be carried out to ensure the safe and efficient operation of the Tipper.

WARNING



Any maintenance carried out under the load bed must only be performed when the body is securely propped. Refer to the section Tipper Controls – Body Prop. Only competent technical trained personnel should carry out maintenance involving adjustment or replacement of operating devices on this Tipper.

The driver, regardless of ownership of the vehicle must perform the following checks and vehicle maintenance. If the driver does not own the vehicle, the owner of the vehicle must satisfy himself or herself that the driver to whom the vehicle has been allocated will carry out these essential checks. The driver must be made aware of their responsibilities to read and understand the Operator Instruction Supplement and carry out the essential Maintenance Checks in line with the maintenance procedure in this section.

Maintenance

Daily Driver Checks:

- Check the Operator Instruction Supplement is complete and located in a safe position within the cab.
- Check the tipper load deck for damage, clean and remove any material that has stuck to it, ensure the surface is smooth and free from debris that may snag loads.
- Check the security of all side and tailboard latches.
- Check the tailboard lower latch mechanism is free from debris and functions correctly.
- Check the rear lights and license plate to ensure any site debris or mud thrown up from the rear wheels has not obscured them.

Monthly Maintenance Checks:

- Check operation of warning sounder.
- Check the hydraulic lines for signs of fluid leaks.
- Check all safety signs are present, and ensure they are legible and not damaged. (Refer to Spare Parts and Accessories catalogue at www.vfs-parts.co.uk for details)
- Inspect and grease tailboard & sideboard latches with general-purpose grease.
- Inspect tailboard lower latch mechanism and apply general-purpose grease to all mechanism linkage pivot points, including remote operating (yellow) handle bearing
- Ensure the tailboard can close securely without free-play.

Maintenance

Annual Maintenance Checks:

In addition to the Monthly Maintenance, the items detailed below should be checked and adjusted as necessary.

- Check the hydraulic reservoir oil level and top up if required with hydraulic oil ISO 32.
- Check the tailboard lower latch mechanism and adjust if necessary.
- Check the 'body stowed' switch.
- Check all electrical cables and ensure that no chaffing has occurred.
- Check the Tipper subframe to chassis fixings.
- Check the rear corner pillar fixings.
- Check the headboard securing fixings.
- Check the fender mounting bracket fixings.
- Inspect the Tipper deck / subframe and associated components for damage. Replace or repair locally to maintain Tipper functionality and roadworthiness.

Description	Torque Value (Nm)
Tipper sub-frame to vehicle chassis fixings.	85
Rear corner pillar mounting fixings.	85
Headboard securing fixings.	23
Fender mounting bracket fixings.	23
Side marker lamp mounting bracket fixings (Double Cab only).	23

Maintenance

Checking the Hydraulic Oil Level

WARNING



Ensure body prop is correctly deployed before attempting to check the hydraulic reservoir oil level.

- Park the vehicle on a firm level surface and apply the handbrake.
- Raise the Tipper bed.
- Raise the Body Prop by pulling up on the handle.
- Rotate the Body Prop past the vertical until it stops.
- Lower the body until it stops. Body Prop should be in location cup under bed floor.
- Turn the Tipper Isolation Switch to the 'OFF' position.
- Remove the keys from the vehicle ignition.
- Visually check the oil level against the Hydraulic Oil Level decal, or unscrew the oil filler cap and check the oil level on the integral dipstick and if required top up with hydraulic oil ISO 32.
- Replace the oil filler cap and lower the Tipper bed.



CAUTION



Do not top up further than the MAX mark.

Fuses

Fuses and Fuse Locations

The Tipper electrical system is protected by 3 fuses.

Primary Fuse:

The primary fuse is located inside the battery Compartment. This fuse is a 150A mega type.

Control Circuit Fuses:

The control circuits are protected by two fuses, 5 Amp and 10 Amp. Both are located in an enclosure mounted inside the battery Compartment.

WARNING



Do not modify the electrical system of your vehicle in any way. Have repairs to the electrical system and the replacement of fuses carried out by properly trained technicians.



Switch ignition and all electrical equipment off before attempting to change a fuse.

CAUTION



Only fit a replacement fuse with the same rating as the fuse removed.

Vehicle Care

Cleaning the Exterior

Regular cleaning of the tipper will maintain the smooth surface essential in allowing the load to slip when tipping. Brush the tipper bed with a broom to clear the floor of debris and brush off the body edges and generally clean around the bodyside and / or tailboard apertures to ensure the side and tailboard can be closed without jamming.

If the vehicle has been used on muddy/dirty sites, always wash down the wheels, rear tail-lights, license plate and lamps.

WARNING



If the Tipper has been used to transport corrosive material, e.g. road salt. The Tipper bed and vehicle should be washed as soon as possible, thereby preventing any potential corrosion.

CAUTION



The use of a high-pressure washer could cause damage to certain parts of your vehicle.

Vehicle Care

Repairing Minor Paint Damage

CAUTION



Remove apparently harmless looking substances from the paintwork immediately (e.g. bird droppings, tree resins, insect remains, tar spots, road salt and industrial fall out).

You should repair paintwork damage caused by stones from the road or minor scratches as soon as possible. A choice of products are available from your Dealer. Read and follow the manufacturer's instructions.

Towing

WARNING



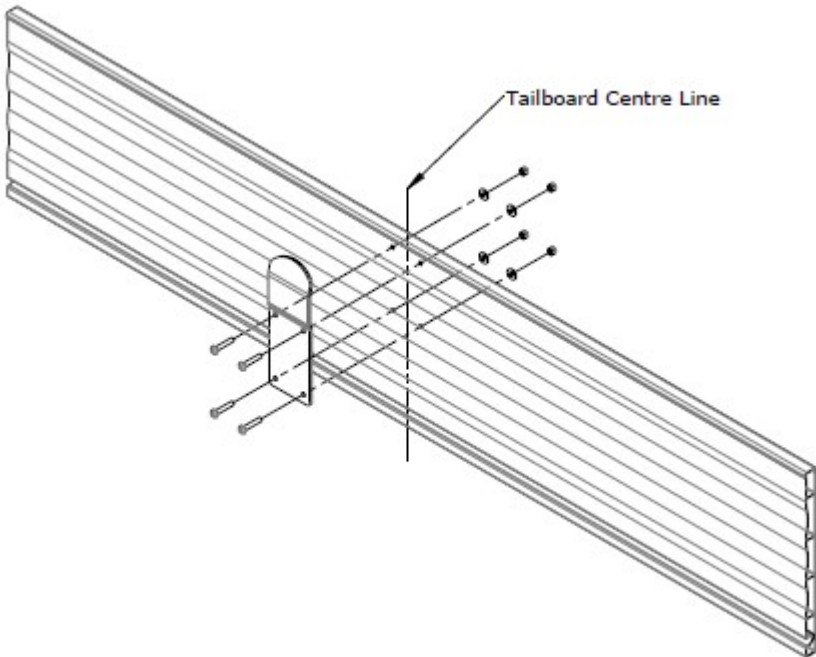
Do not exceed the maximum vehicle and trailer weight stated on the vehicle identification plate. Refer to the Vehicle identification section in the Owner's Handbook

CAUTION



If a tow bar has been fitted ensure that the tailboard has been installed with a protective guide to prevent it from jamming on the tow bar/ball/clevis.

Tailboard Protection Plate Assembly Guide



VFS08-80-277 - Kit - Tailboard Protection - Mercedes "Ready to Work" 1-Way Tipper

Fault Finding

	Problem	Possible Causes	Corrective Action
1.	The Tipper fails to operate.	a) Chassis mounted isolation switch, switched OFF. b) No electrical power (1). c) No electrical power (2). d) No electrical power (3). e) Insufficient hydraulic oil in the reservoir. f) Electric drive motor defective.	Switch ON isolation switch. Check fuse in Battery Compartment (150A). Check the Tipper Control fuses 5.0A and 10.0A in enclosure within Battery Compartment. Check all electrical connections and cables. Fill the reservoir to the correct level. Replace the drive motor/pump unit.
2.	The electric drive motor runs but the Tipper fails to rise.	a) Tipper overloaded. b) Hydraulic pump defective.	Reduce load. Replace the drive motor/pump unit.
3.	Hydraulic oil sprays from the reservoir when the Tipper is lowered.	a) Reservoir over filled. b) Reservoir punctured.	Fill reservoir to the correct level. Replace reservoir.
4.	Chassis mounted buzzer fails to operate.	a) Buzzer defective. b) No electrical power.	Replace buzzer. See items a - d in 1 above.
5.	The Tipper lowers when the hydraulic pump stops.	a) Defective non-return valve. b) Defective pressure release valve. c) Hydraulic oil leak.	Replace non-return valve. Replace pressure release valve. Inspect hydraulic system, replace parts as required.
6.	Tipper only rises partially.	a) Vehicle not on level ground. b) Tipper loaded unevenly. c) Insufficient oil in the reservoir. d) Pressure relief valve defective.	Tip when the Tipper is on level ground. Redistribute the load. Fill reservoir to the correct level. Replace pressure relief valve.
7.	Tipper fails to lower.	a) Solenoid defective. b) Solenoid valve defective. c) Body fully lowered switch defective.	Replace solenoid. Replace solenoid valve. Replace switch.

Parts and Accessories

Spare parts and Accessories are available from: VFS (Southampton) Ltd,
Unit 8, Barton Park Industrial Estate, Chickenhall Lane, Eastleigh SO50 6RR

Tel: 023 8065 1704 Fax: 023 8062 0999 Email: parts@vfs.co.uk

This Operator Instruction Supplement / Spare Parts and Accessories can be found and downloaded, in the relevant section on-line at www.vfs-parts.co.uk

European Whole Vehicle Type Approval (WVTA)

VFS installed Tipper Body and Accessories i.e. Towing Equipment, Tail-lifts etc. have full EC WVTA approval.

The picture illustrates the position
(Driver's Seat Pedestal) of the
"Second Stage Approval" Decal.



Warranty

Full warranty exists on all parts and workmanship associated with the Tipper body conversion for 3-years/ unlimited miles.

Warranty is only valid if the Tipper is operated in accordance with the Owner's Handbook and current Road Traffic Act Legislation.

Warranty claims for parts associated with the Tipper body conversion should be made direct to VFS (Southampton) Ltd.