



Operating Instructions

EURO RAMP



www.amf-bruns.de

Foreword

Dear reader,

these Operating Instructions serve to provide all information required for the safe use of the Euro ramp.

The Euro ramp is designed and constructed in accordance with state of the art technology and recognised safety standards. Persons and materials can however be endangered, as not all danger areas can be eliminated if the functional capability is to be maintained. Accidents caused by these dangers can however be prevented by strictly observing these Operating Instructions. Over and above this, the operational efficiency of the Euro ramp can be used to the full and unnecessary faults can be prevented.

After reading these Operating Instructions for the first time, keep them in a safe place for future reference over the entire lifetime of the Euro ramp. If you sell the Euro ramp, hand these Operating Instructions over to the new owner.

All instructions, figures and dimensions contained in these Operating Instructions are without obligation. No claims in any form can be derived from these.

This document must not be reproduced or duplicated, in full or in part, without the prior, written permission of the manufacturer.

Neither the vehicle nor the Euro ramp must be converted or modified in any way, without seeking the prior, written permission of the manufacturer. The manufacturer will not be held responsible in any way whatsoever if conversions or modifications are carried out without authorisation.

Use only original spare parts or spare parts which have been approved of by the manufacturer. If spare parts other than these are used, this can have a negative effect on the specified characteristics, the functionality and safety of the Euro ramp. Using non-original or unauthorised spare parts will render the guarantee null and void.

Contact our customer services department to order spare parts or accessories (see Chapter 10, page 30).

Explanation of symbols and signs

To improve understanding, the following conventions should be met for these Operating Instructions:

1.

The following types of special note are used to highlight text passages of an important nature.



DANGER!

- warns of a situation of immediate danger, which will lead to serious or fatal injuries, if not avoided.
-
-



WARNING!

- warns of a potentially dangerous situation, which will lead to serious or fatal injuries, if not avoided.
-
-



CAUTION!

- warns of a potentially dangerous situation, which will lead to slight or minor injuries, or material damage if not avoided.
-
-



CAUTION!

...warns of a potentially dangerous situation, which can cause material damage, if not avoided.



...contains general notes and useful information.



...gives a reference to important information in other sections and documents.

2.

Some texts serve a particular purpose. These are identified as follows:

- Lists

⇒ Instructional text, e.g. a sequence of activities.

3.

Meaning of directions:

If directions are given in the text (in front of, front, behind, rear, right, left), these directions relate to the normal direction of travel of the vehicle.



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1 Safety

CAUTION!

There are a number of risks of suffering personal injury and material damage involved in the operation and maintenance of the Euro ramp.



Therefore:

- It is imperative, that these Operating Instructions are read thoroughly before operating your Euro ramp. Always observe the notes and information contained therein, in particular the safety instructions.
 - If these Operating Instructions or parts thereof are lost or become illegible, please request a new copy from the manufacturer or download a copy from our Website www.amf-bruns.de.
-

Prerequisite to the safe handling and trouble-free operation of the Euro ramp is a thorough knowledge of the applicable safety information and the safety regulations.

It is therefore imperative that this Chapter is read thoroughly before operating the Euro ramp and that the instructions and warnings herein are strictly observed. The safety information and warnings, given at the appropriate places in the following Chapters, must also be strictly observed. The manufacturer will not be held responsible if safety information and warnings are not observed.

In addition to the information given in these Operating Instructions, local legislative regulations must be taken into consideration, in particular those regarding safety and accident prevention.

1.1 Proper Use

The Euro ramp must only be used to load wheelchair-bound persons, empty wheelchairs or goods into the vehicle to which the Euro ramp is mounted.

The maximum bearing capacity specified in the dimension sheet on page 17 must not be exceeded. The Euro ramp must be deployed to the same level as that which the vehicle's wheels are standing on.

When transporting wheelchair-bound persons, the Euro ramp will be operated by an accompanying person.

Proper use also includes strictly adhering to the information given in these Operating Instructions.



WARNING!

If the Euro ramp is used for any other purpose than that described above, this can create dangerous situations for persons or cause material damage.

Therefore:

- Only use the Euro ramp for the purpose for which it was intended.
 - Always adhere to information given in these Operating Instructions.
 - Do not use the Euro ramp for any other uses, particularly those given in Section 1.2. These are deemed to be improper use.
-

1.2 Improper Use

Any type of use, other than that mentioned in section 1.1 is deemed to be improper use.

The Euro ramp is deemed to be improperly used if for example:

- It is used in a faulty state or with safety-relevant malfunctions,
- it is deployed to a higher level, such that persons or goods enter the vehicle on a downward incline,
- it is used as a transfer bridge,
- The maximum load bearing capacity is exceeded,
- It is used by incompetent persons.

1.3 Personnel Requirements

The Euro ramp must only be handled by persons who:

- have read and understood these Operating Instructions,
- have proven their ability to operate the Euro ramp to the vehicle's owner,
- have been expressly assigned by the vehicle's owner to operate the Euro ramp,
- are in a position to adjust themselves to the needs of persons with limited mobility (for commercial or communal use in transporting disabled persons).

Transportation, installation, commissioning, maintenance, repair, fault finding and disposal of the Euro ramp must only be carried out by persons with the corresponding technical training and experience.

1.4 Product Monitoring

Please contact AMF-Brunns GmbH & Co. KG immediately if faults or problems are encountered when operating your Euro ramp or if accidents or "near-misses" occur.

AMF-Brunns will effect a solution to the problem with your help and the knowledge gained will flow into future projects.



NOTE

Guarantee work on the Euro ramp must only be carried out with the prior agreement of AMF-Brunns GmbH & Co. KG.

The costs of such work will not be accepted by AMF-Brunns without prior agreement.

1.5 Danger Zone

The danger zone is the area behind the ramp that is being deployed, in which a person can be injured through the movement of the ramp.

CAUTION!

Risk of injury and danger of material damage when deploying the ramp.



There is a risk of injuries to the legs and feet if the ramp is allowed to fall to the ground out of control. The Euro ramp can be damaged.

Therefore:

- Keep a firm hold of the ramp until it is fully in contact with the ground.
 - Deploy the ramp slowly.
-

1.6 Safety and Accident Prevention Regulations

Adhere to the following notes in order to prevent personal injuries and material damage. Adhere also to the relevant safety and accident prevention regulations laid down by the trade associations for commercial or communal use.

- The Euro ramp must only be used for the purpose for which it is intended, otherwise dangerous situations, with resultant injuries, may occur (Proper use: see Section 1.1, page 8).
- The owner is responsible for ensuring that proper use is adhered to, in particular that the Euro ramp is only operated by authorised persons.
- To ensure that the Euro ramp has been installed correctly, it must be inspected by a technical expert. The Euro ramp must not be used until this has been done.
- Proper use of the Euro ramp also includes adherence to the specified maintenance and repair work, in particular the strict adherence to the maintenance intervals. If such work is not carried out, trouble-free operation can not be guaranteed. Risks of personal injury and material damage can occur. We recommend that maintenance records be kept.

- The Euro ramp must not be operated in a faulty condition, as serious injuries may be caused by this. If faults occur, do not use the Euro ramp until repairs have been effected.
- Before carrying out maintenance or repair work, this includes cleaning work, switch the vehicle's engine OFF and prevent the vehicle from rolling away by applying the handbrake. Make certain that no other person can start the vehicle (e.g. by removing the ignition key). If this is not done, there is a risk of injury.
- Use only original spare parts or spare parts which have been approved of by the manufacturer. If non-original or unauthorised replacement parts are used, this will render the guarantee null and void.

1.7 Disposal

When the Euro ramp's useful life has expired, it must only be disposed of by qualified specialists. The manufacturer will accept no liability for damage caused by incorrect disposal.

2 Description

The Euro ramp is used to load wheelchair-bound persons, empty wheelchairs or goods into the vehicle to which the Euro ramp is mounted.

The main components of the Euro ramp are:

- the ramp,
- the floor mounting bracket.

The aim of this chapter is to illustrate the construction and function of the Euro ramp. To this end, the individual assemblies and components are described in the following sections.

2.1 Layout and Function



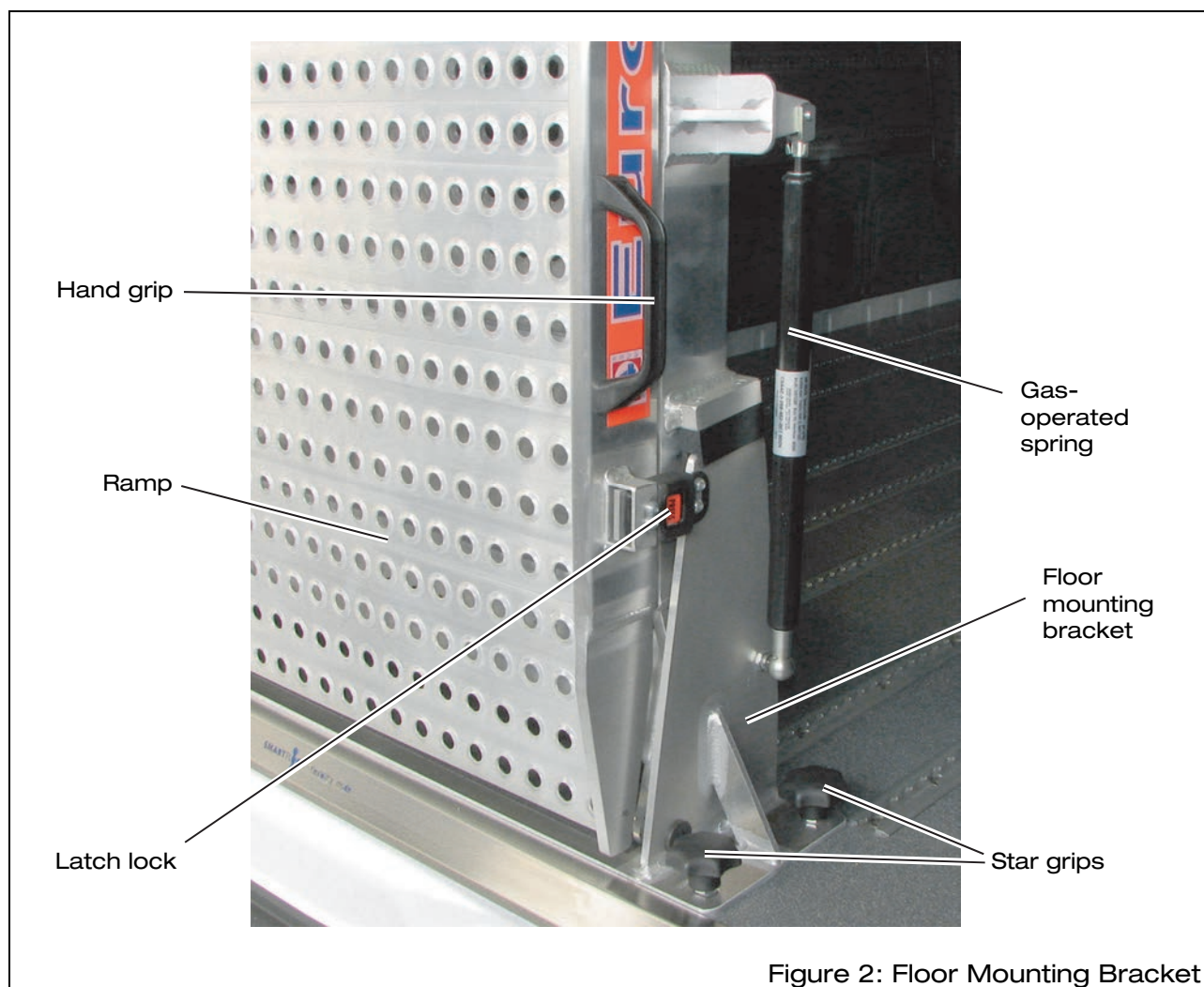
Figure 1: Euro ramp in The Deployed Position

2.1.1 Ramp

The ramp is a welded construction of solid aluminium and a special AMF perforated profile (see Figure 1). It is lowered from the vertical position and unfolded, in order to load and unload a vehicle. The ramp is a hinged, two-piece construction, only extending to its full length when in the deployed position.

2.1.2 Floor mounting bracket

Like the ramp itself, the floor mounting bracket is a welded aluminium construction. It connects the ramp to the vehicle. The floor mounting bracket is secured to the anchorage points in the vehicle by means of four star grips (see Figure 2). The Euro ramp can be removed from the vehicle by unscrewing these four star grips.



The floor mounting bracket can be optionally equipped with a pivot bearing. This allows the ramp to be swivelled into or out of the vehicle by 90° (see Figure 3, page 15). The pivot bearing is at the right- or left-hand side of the Euro ramp, depending upon the version.



NOTE

Euro ramps with pivot bearings do not have star grips and are firmly anchored to the vehicle. The mounting instructions must be observed to fit or remove Euro ramps with pivot bearings to the vehicle.



2.1.3 Gas-operated spring

The gas-operated spring supports part of the weight when the ramp is being deployed (see Figure 2, page 14). It is thus possible to operate the ramp safely and with little effort. The Euro ramp is equipped with one or two gas-operated springs, depending upon the version.

2.1.4 Supports

Additional supports, that increase the load bearing capacity to 500 kg, are also available as an optional extra (see Figure 4, page 16). These supports are recommended when particularly heavy loads are being loaded or unloaded.



Support

Figure 4: Euro ramp with Support (optional)

2.2 Operating Controls



Position of the operating elements: see Figure 2, page 14.

2.2.1 Latch locks

The latch locks are located at both sides of the ramp. They are similar in construction to vehicle safety belt locks. When the "PRESS" buttons are pressed, the latches release and the ramp can be deployed.

When the ramp is folded and stowed, the latch locks audibly engage and hold the ramp in the vertical position.

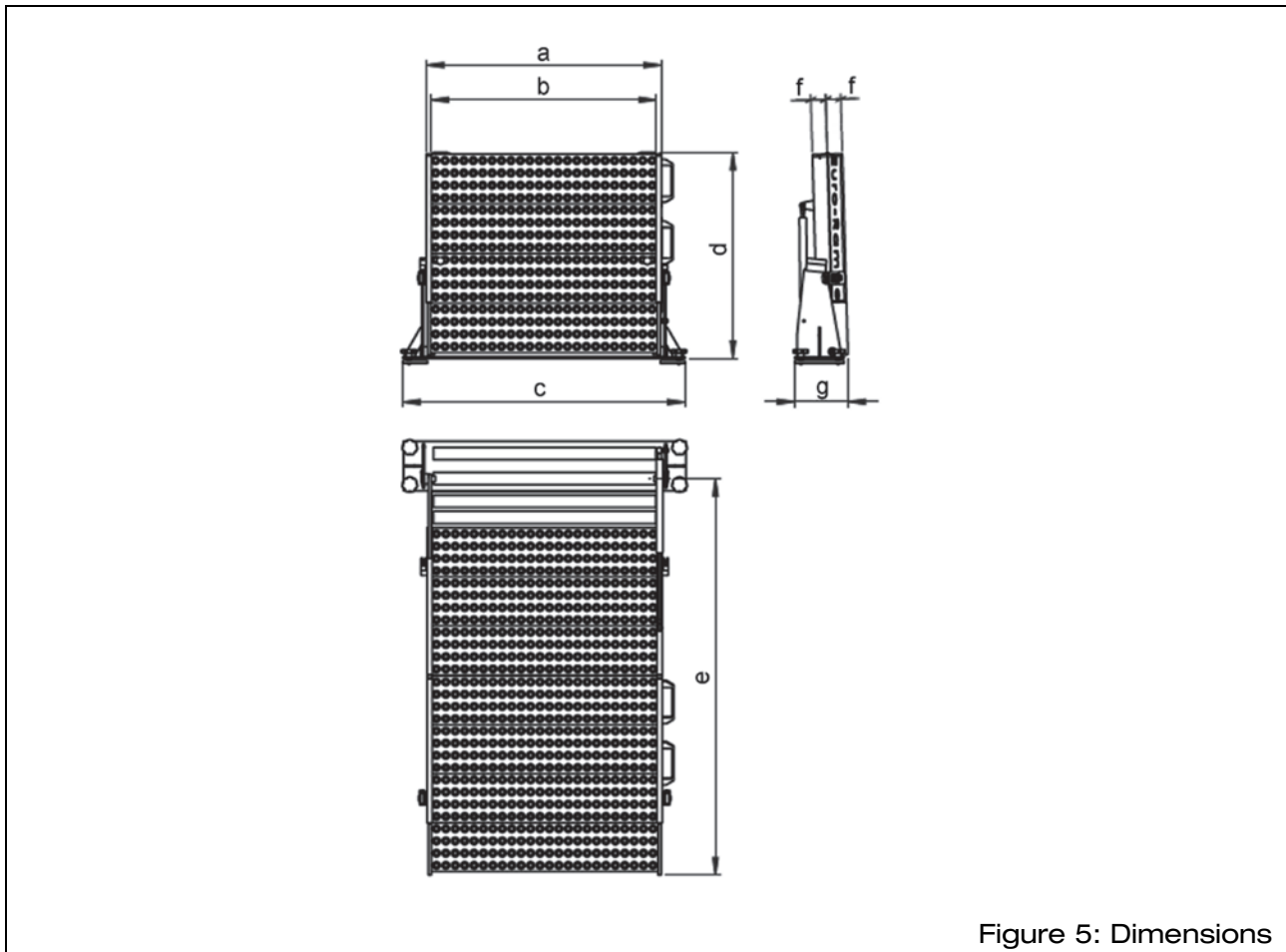
2.2.2 Hand grips

The hand grips are located at both sides of the ramp. They facilitate the safe handling of the ramp when deploying and stowing it.

2.3 Technical Data

Designation	Euro ramp
Dimensions	see dimensions sheet, page 17
Carrying capacity (without supports)	300 kg
Carrying capacity (with supports)	500 kg

2.4 Dimensions Sheet



Art.-No.	Basic dimensions of the ramp in mm	Version	Dimensions in mm						
			a	b	c	d	e	f	g
H20101	2400 x 600	standard	640	600	830	1230	2390	60	215
		swivelling			970	1245			
H20104	2400 x 700	standard	740	700	930	1230	2390	60	215
		swivelling			1070	2045			
H20107	2400 x 900	standard	950	910	1140	1230	2390	80	230
		swivelling			1280	1245			
H20110	2400 x 800	standard	840	800	1030	1230	2390	60	215
		swivelling			1170	1245			
H20114	2800 x 900	standard	950	910	1140	1430	2780	100	245
		swivelling			1280	1440			
H20115	2000 x 800	standard	840	800	1030	1030	1190	60	215
		swivelling			1170	1045			

3 Transportation

Transportation of the Euro ramp is carried out by the manufacturer or by trained, experienced personnel.

4 Installation / Commissioning



The Euro ramp must be installed in accordance with the applicable AMF-Brunns Installation Instructions.

The Installation Instructions can be downloaded from our Website www.amf-bruns.de.

DANGER!

Risk of danger through incorrect installation.

If installation is not carried out correctly, the Euro ramp can come loose in a road traffic collision and be thrown forwards. This can cause fatal injuries to all occupants of the vehicle.



Therefore:

- The Euro ramp must only be installed in a vehicle by specialist personnel under adherence to the applicable AMF-Brunns Installation Instructions.
 - The vehicle manufacturer's body fitting guidelines must be adhered to.
-



NOTE

To ensure that the Euro ramp has been installed correctly, it must be inspected by a technical expert.

The Euro ramp must not be used until this has been done.

5 Operation

5.1 Safety Regulations for Operation



Before operating the Euro ramp, the safety information must have been read (see Chapter 1, page 8).



DANGER!

Danger of injury through a loose Euro ramp.

If the star grips are not firmly tightened to the floor mounting bracket, the Euro ramp can come loose in a road traffic collision and be thrown forwards. This can cause fatal injuries to all occupants of the vehicle.

Therefore:

- Before setting off on a journey, always check that the four star grips are firmly tightened to the floor mounting bracket.



WARNING!

Risk of injury and material damage if the Euro ramp is deployed to a higher level.

If the Euro ramp is deployed to a higher level, its safe use can not be guaranteed. There is a risk of falling off. Material damage can be caused.

Therefore:

- Always deploy the Euro ramp to the same level as that which the vehicle's wheels are standing on.
- It is forbidden to use the Euro ramp as a transfer bridge.



WARNING!

Risk of injury and material damage if the Euro ramp is operated in a faulty condition.

Therefore:

- Always visually inspect the Euro ramp for external damage before use.
- If any damage is found, initiate repairs to the Euro ramp.



WARNING!

Risk of injury and material damage if the Euro ramp is operated by unauthorised persons.

Dangerous operating conditions may be caused if the Euro ramp is operated by unauthorised persons.

Therefore:

- The Euro ramp must only be operated by persons who are familiar with operating the Euro ramp.
-



WARNING!

Danger through road traffic collisions.

A number of risks are involved for passenger and operator when using the Euro ramp on public highways.

Therefore:

- When the parking the vehicle ensure that other road traffic is affected as little as possible.
 - Park the vehicle such that as little danger as possible is presented to the wheelchair passenger and operator by other road traffic.
 - Switch the vehicle's engine OFF and apply the hand-brake before operating the Euro ramp.
-



CAUTION!

Risk of injury if there is insufficient space to operate the Euro ramp.

If there is insufficient space to leave or to get onto the Euro ramp, there is a risk of being injured by the Euro ramp or other objects (e. g. walls, posts or poles).

These risks apply to both wheelchair passenger and accompanying person.

Therefore:

- When parking the vehicle, make certain that there is sufficient space to operate the Euro ramp.
-

5.2 Deploying the Ramp

- ⇒ Switch the vehicle's engine OFF.
- ⇒ Remove the ignition key.
- ⇒ Apply the vehicle's handbrake.
- ⇒ Open the vehicle's rear doors.
- ⇒ Press and hold the "PRESS" buttons of both latch locks pressed (see Figure 6).



Figure 6: Pressing the "PRESS" Buttons

- ⇒ Fold the Euro ramp out, until it makes contact with the ground. Hold the ramp firmly by the bottom hand grip when doing so.

CAUTION!

Risk of crushing and bruising when deploying the Euro ramp.

When deploying the Euro ramp, there is a risk of crushing or bruising between the two sections of the ramp and between the ramp and the ground.

Therefore:

- Hold the ramp firmly by the bottom hand grip when doing so.
- Deploy the ramp slowly.



- ⇒ If supports are fitted, lower these to the ground (optional, see Figure 4 page 16).

5.3 Stowing the Ramp

- ⇒ If supports are fitted, lower these to the ground (optional, see Figure 4, page 16).
- ⇒ Lift the ramp up by using the top hand grip.
- ⇒ Lift the ramp up to the vertical position.
- ⇒ Push the ramp in, until it audibly engages in both latch locks (see Figure 7).



Figure 7: Locking the Ramp

CAUTION!

Risk of crushing when stowing the Euro ramp.

When stowing the Euro ramp, fingers and hands can be caught and crushed between the two sections of the Euro ramp.

Therefore:

- Hold the ramp firmly by the top hand grip when doing so.
- Do not reach into the gap between the two sections of the ramp.



5.4 Swivelling the Ramp

- ⇒ Move the locking lever to the vertical position (see Figure 8).
- ⇒ Swivel the ramp in the desired direction.

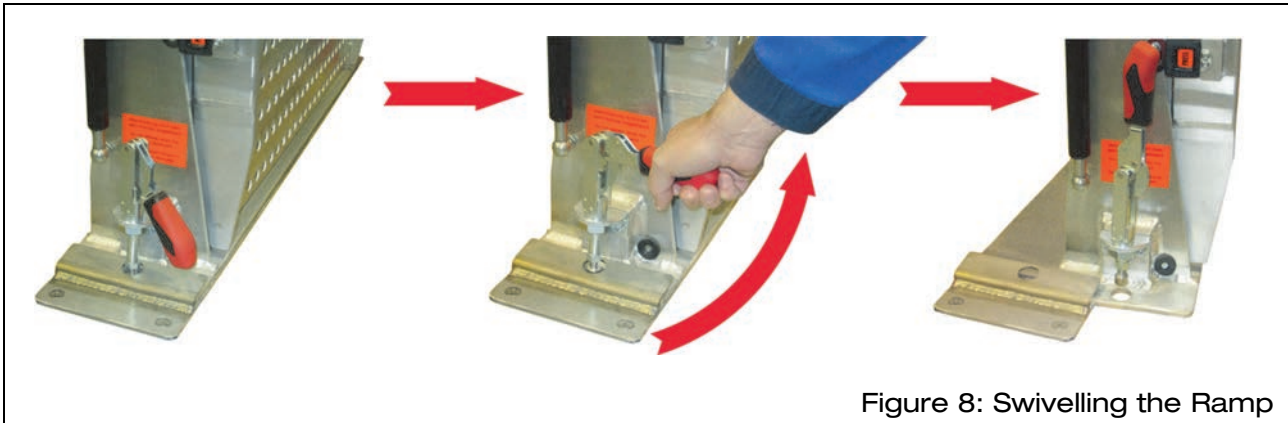


Figure 8: Swivelling the Ramp

WARNING!

Risk of injury and danger of material damage with the ramp swivelled.

If the ramp is swivelled, it can swivel about when driving. Occupants of the vehicle can be seriously injured. Damage can be caused to the ramp, vehicle and cargo.

Therefore:

- Secure the ramp in its home position (see Section 5.5).
- Do not start your journey until this has been done.



5.5 Securing the Swivelling Ramp in its Home Position

- ⇒ Swivel the ramp into its home position above the floor mounting bracket.
- ⇒ Pivot the locking lever downwards until it engages (see Figure 8, left-hand image).

5.6 Fitting and Removing the Euro ramp

CAUTION!

Risk of injury when fitting or removing the Euro ramp.

The Euro ramp can fall over or fall to the ground. There is a potential risk of injury through crushing and of material damage.

Therefore:



- Make certain that the vehicle is standing straight and level.
 - Apply the vehicle's handbrake.
 - Do not loosen the Euro ramp's star grips or put the Euro ramp into the vehicle until this has been done.
 - Remember that the Euro ramp weighs anything up to 75 kg.
 - Always lift the Euro ramp with the assistance of a second person.
 - Always wear safety footwear and protective gloves when fitting or removing the Euro ramp..
-



NOTE

Euro ramps with pivot bearings do not have star grips and are firmly anchored to the vehicle. The mounting instructions must be observed to fit or remove Euro ramps with pivot bearings to the vehicle.

5.6.1 Removing the Euro ramp

- ⇒ Loosen and remove the star grips.
- ⇒ Lift the Euro ramp out of the vehicle.
- ⇒ Place the Euro ramp onto a firm, even and level surface.

5.6.2 Fitting the Euro ramp

- ⇒ Lift the Euro ramp into the vehicle.
- ⇒ Align the Euro ramp to its anchorage points.
- ⇒ Screw the star grips in and tighten them fully.

6 Maintenance and Repair

6.1 Safety Regulations for Maintenance and Repair



Read the safety information before carrying out maintenance and repair work (see Chapter 1, page 8).

WARNING!

Risk of injury and material damage if maintenance and repair work is not carried out correctly.

Therefore:

- Only allow specialist personnel to carry out maintenance and repair work.
 - If repair work has been carried out on load bearing parts, this must be inspected by a technical expert.
-



WARNING!

Risk of personal injury or material damage if inferior quality spare parts are used.

The manufacturer will accept no liability whatsoever for damage or injury caused by the use of non-original spare parts or spare parts that have not been approved of by the manufacturer.

Therefore:

- Use only original spare parts or spare parts that have been approved of by the manufacturer.
-



6.2 Routine Maintenance Work

The maintenance schedule below lists the maintenance work that must be carried out at regular intervals.

Contact the customer service department for maintenance work that must be carried out by a specialist (see Chapter 10, page 30).



6.2.1 Maintenance schedule

Interval	Activity
before use	Check that the star grips are tight. Tighten the star grips if necessary.
	Carry out a visual inspection for damage or faults. Initiate repairs if necessary.
as required	Clean the Euro ramp.

6.2.2 Maintenance record

Enter maintenance and repair work that has been carried out into the maintenance record provided for this purpose (see Section 6.3). This provides a traceable record of maintenance work.

For records of maintenance work over and above this, it is recommended that you keep your own lists.

6.3 Maintenance and Inspection Record

Maintenance work carried out		
Date	Signature	Remarks / work carried out

7 De-Commissioning and Conservation

For queries regarding de-commissioning and conservation, contact our customer services department (see Chapter 10, page 30).

8 Faults and Troubleshooting



WARNING!

Risk of injury and material damage if repair work is carried out incorrectly.

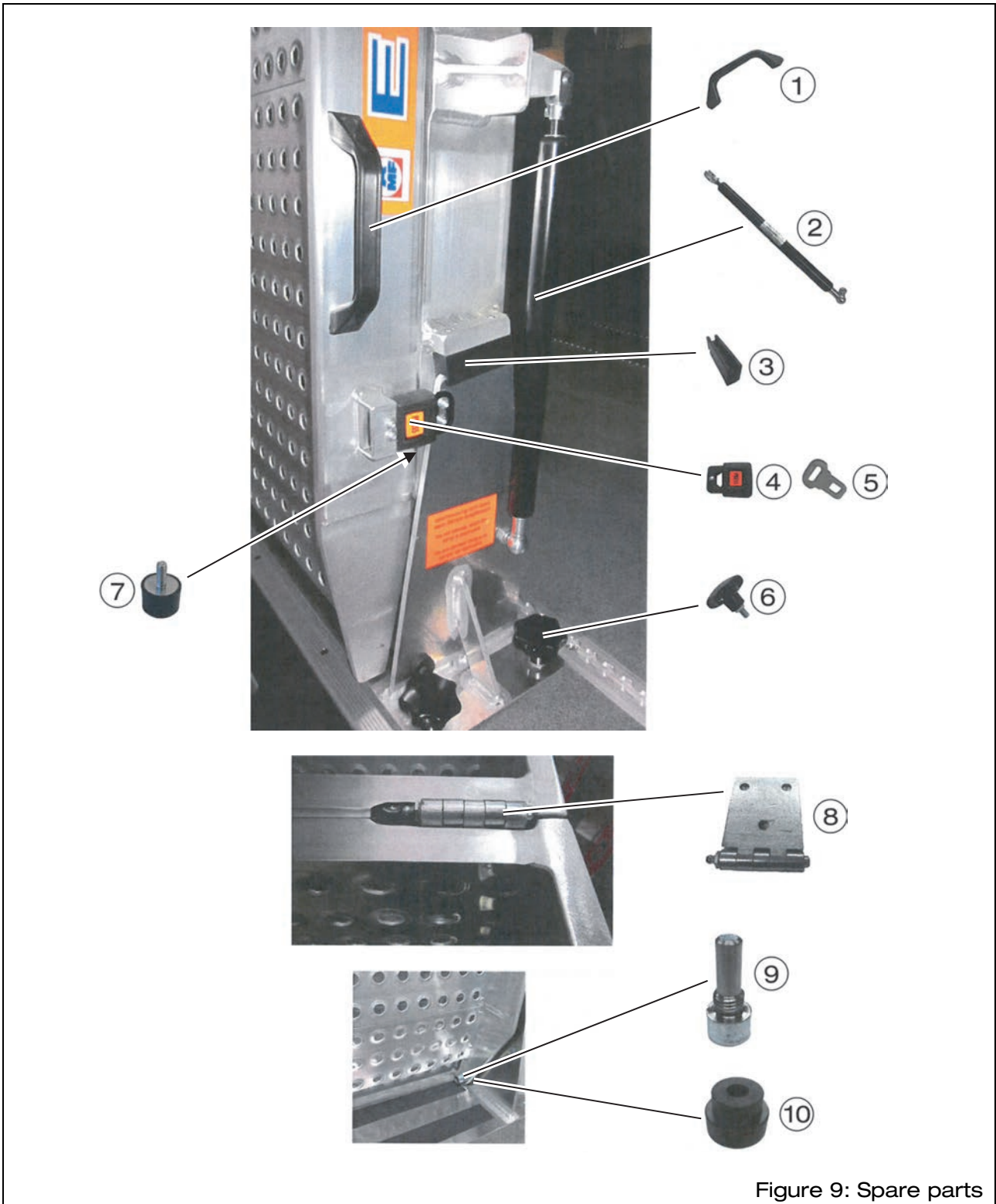
Therefore:

- Only allow specialist personnel to carry out repair work.

If faults occur when operating the Euro ramp, proceed as described in the following troubleshooting table. Contact the customer service department if faults are encountered which cannot be remedied using the information and measures given in the table.

Fault	(possible) Cause	Remedial Measures
The ramp can not be locked in the vertical position.	The ramp or latch locks are dirty.	Clean the components.
	The latch locks are maladjusted or defective.	Check the latch locks. Adjust or replace with new latch locks as necessary.
The ramp can only be operated using excessive force.	One or more of the gas-operated springs is/are defective.	Replace the gas-operated spring(s) as necessary.
The ramp makes noises when driving.	The ramp fastenings have become loose.	Tighten the star grips. Check that the floor mounting bracket is tightly secured to the vehicle and tighten if necessary.
	The locking lever mechanism is maladjusted or loose (see Figure 8, page 23).	Re-adjust or tighten the mechanism.

9 Spare parts



Item	Article No.	Designation	Type Euro ramp	Quantity per ramp
1	H20120	Hand grip, including cap, for Euro ramp		2 or 4
2	10002634	Gas-operated spring 580 N, length 462 mm +/- 2 mm	2.80 x 0.90 m	2
			2.00 x 0.80 m	1
	10002632	Gas-operated spring 700 N, length 462 mm +/- 2 mm	2.40 x 0.90 m (up till 10/2011)	1
			2.40 x 0.80 m	1
			2.40 x 0.70 m	1
			2.40 x 0.60 m	1
	10015285	Gas-operated spring 900 N, length 462 mm +/- 2 mm	2.40 x 0.90 m (from 11/2011)	1
H20106	Gas-operated spring 400 N, length 462 mm +/- 2 mm	1.60 x 0.90 m	1	
3	10003059	Ramp bracket guide blocks	standard	2
	10003628		swivelling	
4	H150325	Latch lock		2
5	H150320	Latch		2
6	H20112	Star grip for Euro ramp		4
7	10003034	Rubber buffer D 030 x L 020, M 8 x 18		2
8	10002395	Euro ramp profile hinge		2
9	10013548	Ramp anchorage bolts		2
10	10002656	Ramp bearing bushings		2

10 Customer Service

The AMF-Brunns customer service department will be more than pleased to assist in ordering spare parts, maintenance and repair work and help with general problems or queries.

The address is:

AMF-Brunns GmbH & Co. KG
Hauptstraße 101
D - 26689 Apen

Tel.: +49 (0) 44 89 / 72 72-30

Fax: +49 (0) 44 89 / 62 45

service.hubmatik@amf-bruns.de

www.amf-bruns.de



NOTE

Guarantee work on the Euro ramp must only be carried out with the prior agreement of AMF-Brunns GmbH & Co. KG.

The costs of such work will not be accepted by AMF-Brunns without prior agreement.



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