

AMF-BRUNS

OPERATING INSTRUCTIONS MANUAL

eFUTURESAFE



WARNING

Carefully read, understand and follow all warnings and instructions provided in this manual, and keep it in a safe place for future reference. If you have any doubt whatsoever regarding the use or maintenance of any AMF-BRUNS product, please contact AMF-BRUNS. Failure to follow these warnings and instructions can result in product malfunction or loss of control of the vehicle, causing an accident, severe personal injury or death.



AMF-BRUNS OF AMERICA

www.amfbrunsamerica.com



AMF-Bruns of America

Operating Instructions

eFUTURESAFE

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Foreword

Dear Purchaser:

Thank you for purchasing an AMF-Bruns of America product. Your product has been designed to provide years of safe and dependable service -- as long as it is installed, used and maintained in accordance with the instructions provided in this manual.

All persons who will install, use and/or maintain this product must read, understand and follow all warnings and instructions provided in this manual. This manual should be considered an integral part of your product and should remain with your product. However, nothing in this manual, and none of the safety devices installed on the product, substitute for proper training, careful operation and common sense.

Always be sure that your product is in optimum working order. If you suspect that anything is not working properly, or that a dangerous situation may exist, immediately contact your dealer or AMF-Bruns of America before you proceed.

Keep these Operating Instructions in a safe place for future reference over the lifetime of the product. If you sell eFutureSafe, pass these Operating Instructions to the new owner.

All details, figures and dimensions contained in these Operating Instructions are non-binding. No claims in any form can be derived from this manual. This document must not be reproduced or duplicated, in full or in part, without the prior, written permission of the manufacturer.

eFutureSafe must not be converted or modified in any way without seeking the prior written permission from AMF-Bruns. AMF-Bruns will not be held responsible in any way if conversions or modifications are carried out without proper authorization.

Use only original spare parts or spare parts which have been approved of by AMF-Bruns. If spare parts other than these are used, this can have a negative effect on the specified characteristics, the functionality and safety of eFutureSafe. The use of any other parts will render the warranty null and void. Use caution when removing OEM vehicle parts due to sharp edges. Depending on vehicle type, the installation process may vary.

For any concerns regarding the proper use, maintenance or safety of your product, or if you need to order new products, spare parts or accessories:

- Call your authorized AMF-Bruns of America dealer.
- Contact our AMF-Bruns Customer Service at 1-877-506-3770
- Email: contact@amfbrunsamerica.com
- Visit our website: www.amfbrunsamerica.com

Sincerely,

AMF-Bruns of America

Explanation Of Symbol And Signs

1) The following symbols and signage will be used in the Operating Instructions to emphasize safe installation and usage of this product:



DANGER!

Warns of a situation of immediate danger which could lead to serious or fatal injuries if not avoided.



WARNING!

Warns of a potentially dangerous situation which could lead to serious or fatal injuries if not avoided.



CAUTION!

Warns of a potentially dangerous situation, which can lead to slight or minor injuries or material damage if not avoided.



ATTENTION!

Indicates a potentially dangerous situation which can cause material damage if not avoided.



Contains general and useful information.



Reference important information in other sections and documents.

2) Some text passages serve a special purpose. These are highlighted as lists and instructional text, i.e. a series 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.

1) SAFETY



CAUTION!

Risk of injury if eFutureSafe is not operated correctly.

- It is imperative that this manual is read thoroughly before operating eFutureSafe.
- Always follow the instructions and information.
- If this manual is lost or becomes illegible, please request a new copy from your authorized dealer or AMF-Bruns of America before you proceed.

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

It is essential that this manual is read thoroughly before operating eFutureSafe and that the instructions and warnings herein are strictly observed. The safety information and warnings, given at the appropriate places in this manual, must also be strictly observed. The manufacturer will not be held responsible in situations in which safety information and warnings are not adhered.

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

1.1 Proper Use

eFutureSafe is designed solely for use in a vehicle as a head-and-back support for a wheelchair user who is driving a vehicle. The driver seated in the wheelchair must wear the seat belts provided in the vehicle. The wheelchair must be secured by the securement system fitted to the vehicle. No bags or other objects must be hanging on the backrest of the wheelchair.



WARNING!

If eFutureSafe is used for any other purpose than that described above, this may result in dangerous situations for persons or material damage being caused.

- Only use eFutureSafe for the purpose for which it was intended: wheelchair mobility.
- Always adhere to information given in this operations manual.
- Do not use eFutureSafe for any other purposes, particularly those given in Section 1.2. Such actions would be considered to be improper use.

1.2 Improper Use

Any use other than described in Section 1.1 is considered to be improper use, including if:

- The passenger seated in the wheelchair is not secured by the occupant securements.
- The wheelchair is not properly secured inside the vehicle.
- There are bags or other objects hanging on the backrest of the wheelchair.
- It is used in a faulty state or with safety-relevant malfunctions.

1.3 User Requirements

eFutureSafe must only be handled by persons who:

- Have been instructed in how to operate eFutureSafe
- Have read and understood these Operating Instructions.

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

1.4 Product Monitoring

For any problems regarding the proper use, maintenance or safety of your product:

- Call your authorized AMF-Brunns of America dealer.
- Contact our Customer Service at 1-877-506-3770.
- Visit our website: www.amfbrunsamerica.com.

1.5 Danger Zone

The danger zone is any area within the swivelling range of eFutureSafe, in which a person is at risk of being injured or harmed.



CAUTION!

Risk of injury through movements of eFutureSafe.

Only operate eFutureSafe when there are no persons standing within the Danger Zone.

1.6 Safety Devices

1.6.1 Indicator Lamp

The indicator lamp lights up green when eFutureSafe is in the driving position (see Section 5.3, page 15). eFutureSafe is in the driving position when it is swivelled forwards.

1.6.2 Overload Cut-Out

If eFutureSafe hits an obstacle during the swivelling process, the drive will sense the obstruction and cut out.

1.6.3 Emergency Release

The emergency release allows eFutureSafe to be swivelled to the park position if the electric drive fails. This ensures that the wheelchair passenger can leave the vehicle even if eFutureSafe malfunctions.

This also enables the wheelchair passenger to be evacuated quickly if the vehicle is involved in an accident. After operating the emergency release, eFutureSafe must be rebuilt by experienced technicians.

1.7 Safety and Accident Prevention Regulations

- Only use eFuturesafe for the intended purpose (proper use). Improper use could lead to injuries and material damage. (Proper use: see Section 1.1, page 7).
- Proper use of eFutureSafe also includes strict adherence to scheduled maintenance intervals and repair work (when needed). If such work is not performed, trouble-free operation can not be guaranteed and could lead to personal injury and material damage.
- eFutureSafe must not be operated in a faulty condition. Doing so could lead to serious injuries. If faults occur, do not use eFutureSafe until repairs have been completed by experienced technicians.
- Use only original spare parts or spare parts which have been approved of by AMF-BRUNS. If spare parts other than these are used, this can have a negative effect on the specified characteristics, the functionality and safety of eFutureSafe. The use of any other parts will render the warranty null and void.

1.8 Disposal

When eFutureSafe's useful life has expired, it must only be disposed by experienced technicians. The manufacturer will accept no liability for damage caused by incorrect disposal.

2) DESCRIPTION

eFutureSafe offers additional safety to a wheelchair user driving a vehicle by supporting their head-and-back in the event of an accident.

The main components of eFutureSafe are:

- Floor mount
- B-pillar with support bracket (vehicle specific)
- Pillar with drive
- Swivel arm
- Head-and-back supports
- Emergency release
- Control unit
- Operating controls and indicators

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

2.1 Layout and Function

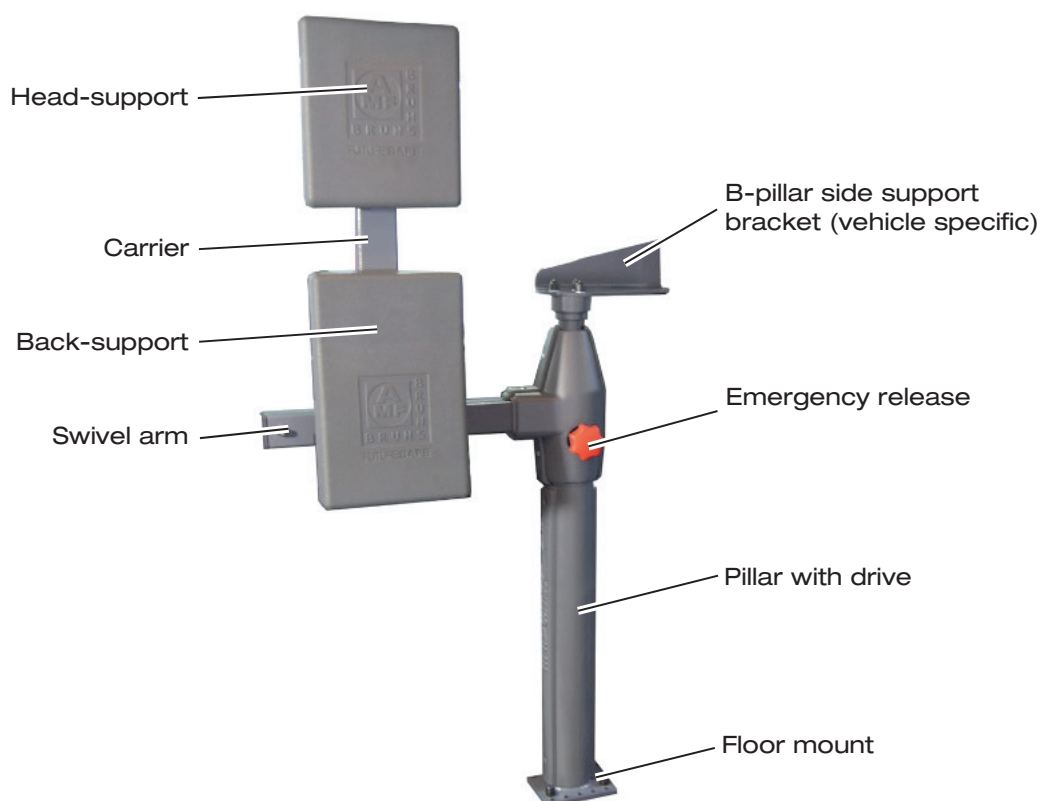


Figure 1: eFutureSafe

Description

2.1.1 Floor Mount and Side Support Bracket

eFutureSafe is anchored to the floor of the vehicle by its floor mount and special mounting components. Additionally, eFutureSafe is anchored to the B-pillar by means of a vehicle-specific side support bracket. In the event of an accident, the forces acting are absorbed by the floor mount and the side support.

2.1.2 Pillar

The pillar is fastened to the vehicle by the floor mount and side support bracket. It carries the electrically driven swivel arm. The drive for the swivel arm is located in the lower section of the pillar.

2.1.3 Head-and-Back Supports

The head-and-back supports are attached to a common carrier. They are each provided with mechanics for height adjustment.

2.1.4 Swivel Arm

The carrier, with head-and-back supports, is mounted on the carrier arm and can be infinitely adjusted on the swivel arm. This allows the head-and-back supports to be laterally positioned so that they are exactly behind the driver.

2.1.5 Control Unit

The electronics for controlling the swivel arm drive are contained in the control unit. With the ignition switched OFF, the swivel arm can be swivelled to the driving or parked positions by means of a toggle switch that is connected to the control unit. The green indicator lamp, which is also connected to the control unit, lights up when eFutureSafe is in the driving position.

2.1.6 EmergencyRelease

This release allows the swivel arm to be swivelled if the electrical drive has failed.

2.1.7 Rating Plate

A rating plate, which contains the fundamental data, is attached to eFutureSafe (see Figure 2 below). The rating plate is located on the underside of the swivel arm.



	AMF-Bruns eFUTURESAFE	
MFG date	<input type="text"/>	
Type	<input type="text"/>	
Serial #	<input type="text"/>	
AMF-Bruns of America LP · 1797 Georgetown Rd · Hudson, OH 44236 service phone +1 877 506 3770 · www.amfbrunsamerica.com		

Figure 2: Rating Plate

2.2 Operating Controls and Indicators



Figure 3: Toggle switch



Figure 4: Indicator Lamp

Designation	Function
Toggle switch	Swivels eFutureSafe with the ignition switched OFF.
Indicator Lamp	Lights up green, as soon as eFutureSafe is in the driving position.

2.3 Technical Data

Designation		eFutureSafe
Dimensions:	Width (maximum)	23.82" / 605 mm
	Depth (by swivelling)	23.82" / 605 mm
	Height (minimum)	49.25" / 1251 mm
	Height (maximum)	53.19" / 1251 mm
	Height of connection to the B-pillar (minimum)	33.86" / 860 mm
	Height of connection to the B-pillar (maximal)	37" / 940 mm
Weight (approx.)		60.63 lb / 27.5 kg
Connection voltage		12 V DC
Current consumption:	Standby in the parked position	<3,5 mA
	Driving Position	35 mA
	Swivelling	3 A
	(run-up and stop peaks)	5 A

NOTE



Remember to take the weight of the installation materials into consideration for the maximum permissible gross weight of your vehicle.

3) TRANSPORTATION

eFutureSafe is transported by the manufacturer or by trained, experienced personnel.

4) INSTALLATION / COMMISSIONING



INSTALLATION INSTRUCTIONS

eFutureSafe must be installed in accordance with the AMF-Bruns Installation Instructions. Installation Instructions can be downloaded from our website.



DANGER!

Risk of injury through incorrect installation.

Incorrect installation of eFutureSafe can create risk of personal injury and material damage during installation and after installation.

- Only use trained technicians to install eFutureSafe.
- Vehicle manufacturer's body fitting guidelines must be followed during installation.



NOTE

eFutureSafe cannot be used until a qualified technician inspects installation to ensure it was done according to AMF-Bruns Installation Instructions.

5) OPERATION

5.1 Safety Regulations for Operation



SAFETY INFORMATION

Before operating eFutureSafe, read and fully understand the safety information.

Prior to using eFutureSafe:

- Read Chapter 1 of these Operating Instructions
- Read about the restraint systems in these Operating Instructions
- Read about 3rd party documentation provided with your wheelchair.



WARNING!

Risk of personal injury and material damage.

- Severe injuries and material damage can be caused if eFutureSafe is operated in a faulty condition. Always visually inspect the product for signs of damage before using.
- eFutureSafe cannot be swivelled to the driving position if its path is blocked by obstacles. The protective function is not effective.
 - Remove bags or other objects hanging from the backrest of the wheelchair.
 - Make certain there are no obstacles within the swivelling range of e-FutureSafe.
- To help reduce the chance of injury:
 - Make certain that eFutureSafe is in the driving position. Do not use the product without doing so.
 - Make sure eFutureSafe is correctly adjusted to provide maximum protection. Learn how by referring to the next section. Have a second person double-check the adjustments before using the product.
 - Make sure wheelchair is correctly secured to the vehicle's restraint system.
 - Ensure that both wheelchair driver and wheelchair passengers always wear occupant restraints. Don't drive without them.



NOTE

Restraint Systems

- For safe use of eFutureSafe, make sure the restraint systems for wheelchair and driver conform with the applicable local standards. If uncertain, contact AMF-Brunns of America.
- Check if the correct restraint system is fitted to your vehicle. If in doubt, see Chapter 10, page 25).

5.2 Swivelling eFutureSafe to the Parking Position

In the parking position, eFutureSafe is swivelled back and the area behind the steering wheel is freely accessible to the driver (see Figure 5).

- Switch the vehicle's ignition OFF.
- Operate the eFutureSafe's toggle switch.

The green indicator lamp goes out as soon as eFutureSafe leaves the driving position. eFutureSafe stops as soon as it has reached the parking position.



NOTE

Ensure that eFutureSafe is in the parking position when the vehicle is parked. If eFutureSafe is in the driving position, the green indicator lamp will be lit. This means there is a risk that this will discharge the starter battery.



Figure 5: Parking Position



Figure 6: Driving Position

5.3 Swivelling eFutureSafe to the Driving Position

eFutureSafe is in the driving position when it is swivelled forwards (see Figure 6).

- Ensure that the vehicle's ignition OFF.
- Remove any bags or other objects from the wheelchair's backrest.
- Assume the driving position behind the steering wheel.
- Secure the wheelchair with the restraint system provided.
- Apply the wheelchair's parking brake.
- Put your seat belt on.
- Operate eFutureSafe's toggle switch.

eFutureSafe stops as soon as it has reached the driving position. The green indicator lamp lights up.

5.4 Adjusting eFutureSafe



WARNING!

Risk of severe injuries.

For eFutureSafe to provide maximum protection, it must be adjusted prior to usage. Have a second person double-check the adjustments. Repeat the adjustment if you use a different wheelchair or if there is a change of driver.

If eFutureSafe is not in the parking position:

- Have a second person swivel eFuturesafe to the parking position.
- Remove any bags or other objects from the wheelchair's backrest.
- Assume driving position behind the steering wheel.
- Secure the wheelchair with the vehicle's restraint system.
- Apply the wheelchair's parking brake.
- Put your seat belt on. Operate the eFutureSafe toggle switch.

The green indicator lamp lights up. eFutureSafe is in the driving position.

5.4.1 Adjusting the Lateral Position of the Head-and-Back Supports



NOTE

Have a second person make the following adjustments.



Carrier

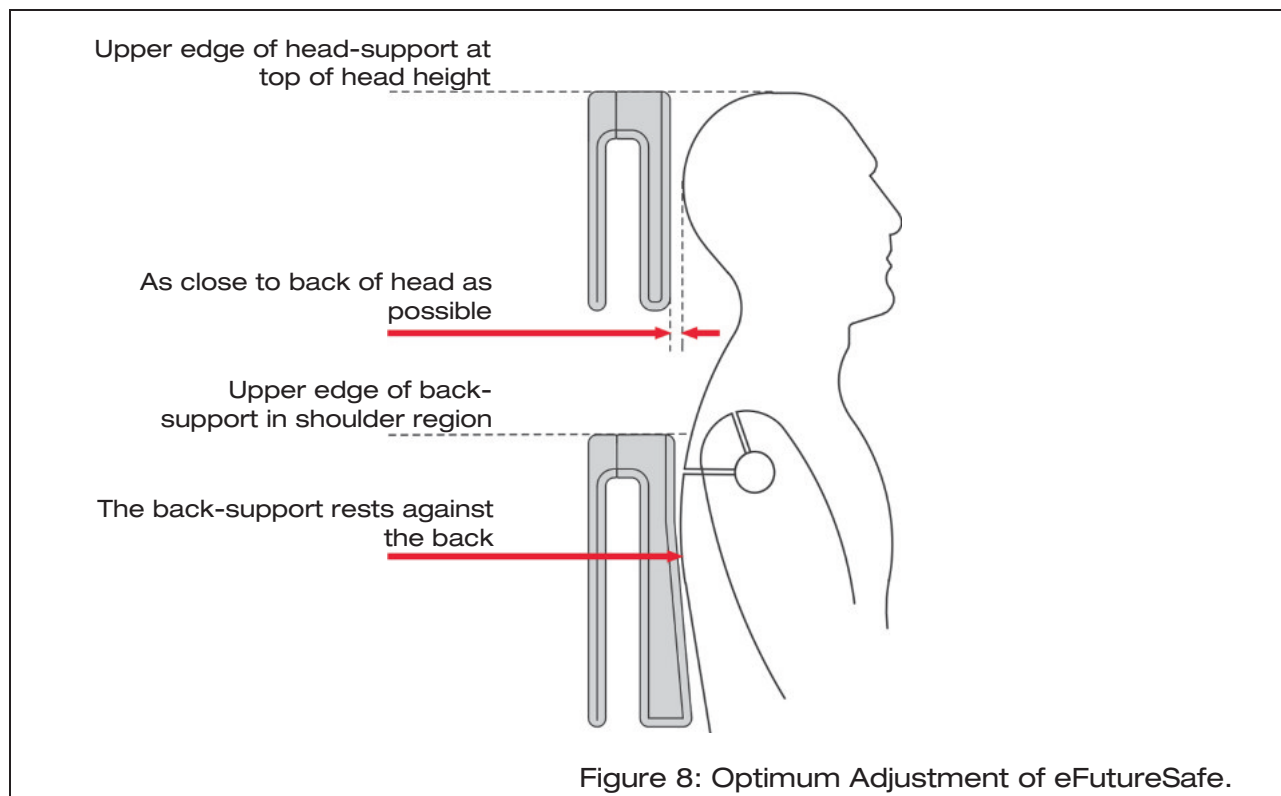
Star grip

- Loosen the star grip on the carrier (see Figure 7).
- Move the carrier on the swivel arm such that the Head- and-Back Supports are behind the center of the driver.
- Tighten star grip.

Figure 7: Lateral Adjustment of Head-and-Back Supports

5.4.2 Adjusting the Height of the Head-and-Back Supports

The maximum degree of protection is gained by correcting the setting height of the head-and-back supports (see Figure 8 below).



NOTE

- Have the following adjustments made for you by a second person.
- Remember that eFutureSafe adjustment described here represents the ideal case.
- Always try to find a balance between maximum protection and maximum comfort when making adjustments.

Adjust the height of the back-support:

- Press and hold the latch button on the back-support (see Figure 9, page 18).
- Adjust the back-support up or down to the desired height.
- Adjust the height of the back-support, such that the upper edge is positioned in the area of the driver's shoulder.
- Release the latch button.

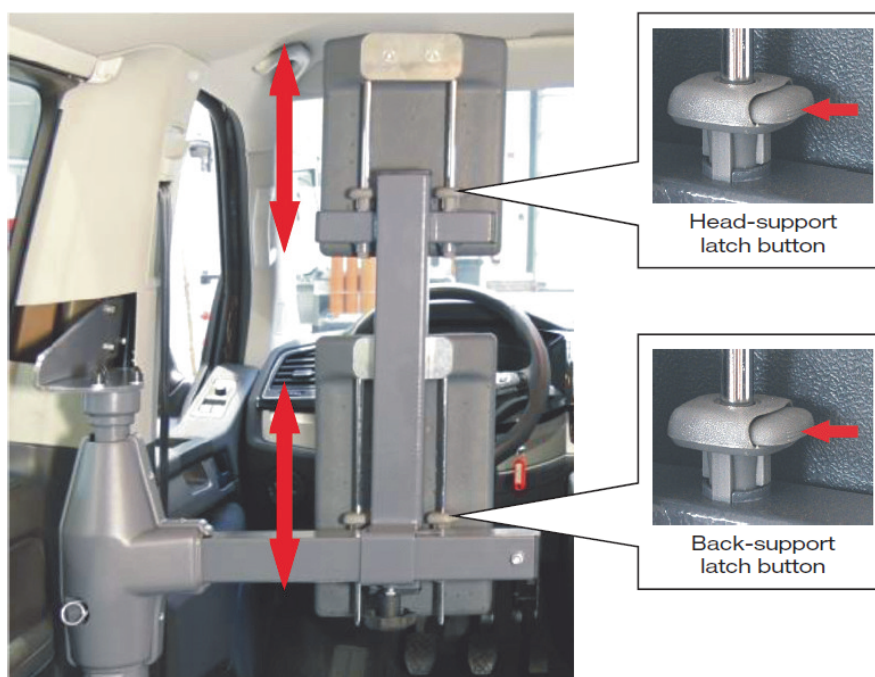


Figure 9: Adjusting the Height

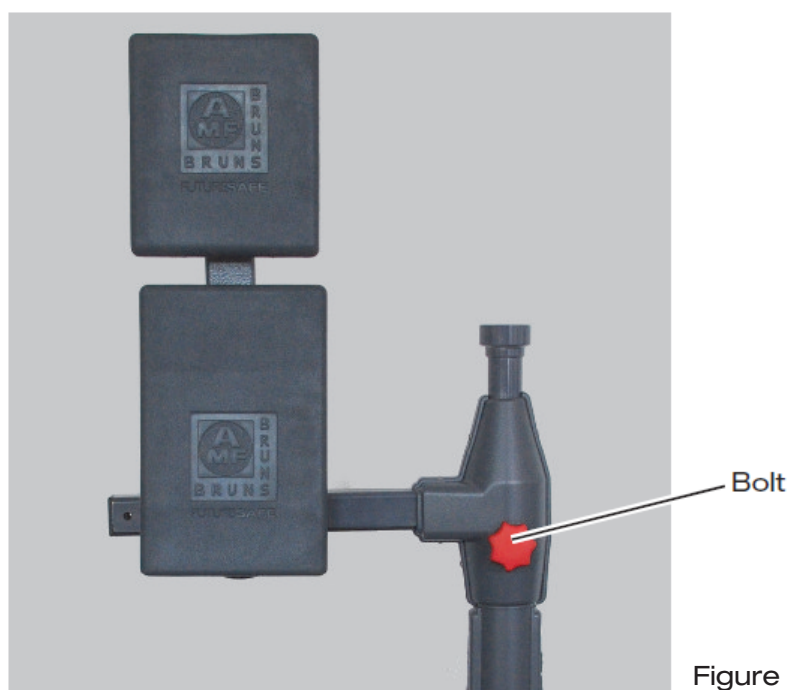
5.5 Emergency Release



NOTE

This allows for easier evacuation from the vehicle following a traffic collision.

The Emergency Release allows eFutureSafe to be swivelled to the park position if the electric drive fails. This enables you to leave your vehicle. This also allows you to be evacuated more easily if the vehicle is involved in an accident. Ensure that Emergency Release label is on product for end user.



The Emergency Release consists of a bolt that is locked in place by a locking pin at the rear (see Figures 10 and 11).

To release, pull the locking pin out of the rear of the bolt and remove the bolt. Shake the supports lightly to make removing the bolt easier.

See Emergency Release label (Figure 12).

Figure 10: Emergency Release

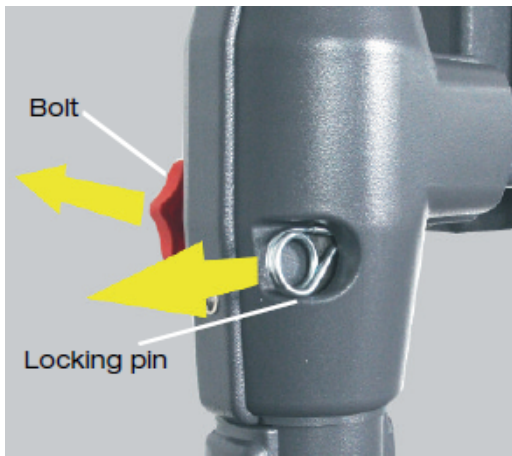


Figure 11: Emergency Release

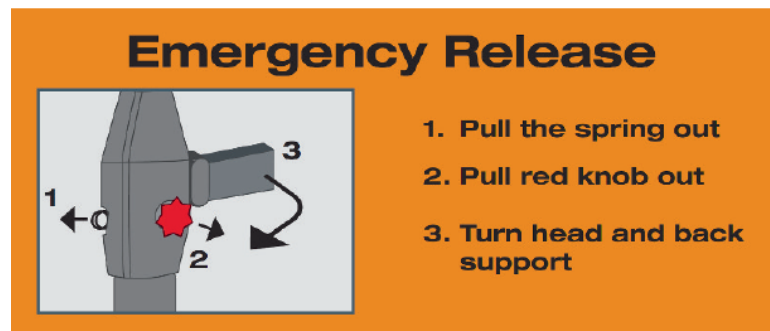


Figure 12: Label for Emergency Release



NOTE

Once the Emergency Release has been used, have a qualified technician restore eFutureSafe to its original condition.

6) MAINTENANCE / REPAIR

6.1 Safety Regulations for Maintenance and Repair



Read the safety information before initiating maintenance and repair work (see Chapter 1, page 7).



WARNING!

Risk of injury.

There is a risk of injury if:

- eFutureSafe is used after being involved in an accident. It can suffer damage that is not immediately evident, which can impair your safety. eFutureSafe must be replaced if involved in an accident in which the vehicle was towed. Call Customer Service (see Chapter 11, page 25).
- Maintenance and repair work is not carried out correctly. Use only a qualified technician for all maintenance and repair work.
- Inferior quality spare parts are used. Use only original spare parts or spare parts which have been approved of by AMF-Brunns. If spare parts other than these are used, this can have a negative effect on the specified characteristics, the functionality and safety of eFutureSafe. The use of any other parts will render the warranty null and void.

6.2 Routine Maintenance Work

The maintenance schedule below lists the maintenance work that must be performed at regular intervals. Contact the customer service department for maintenance work that must only be performed by a qualified technician (see Chapter 11, page 25).

6.2.1 Maintenance Schedule

Interval	Activity
Before use	Carry out a visual inspection for damage or faults.
	Initiate repairs if necessary.

6.2.2 Maintenance Record

Record maintenance and repair work that has been performed into the maintenance record below (see Section 6.3). This provides a traceable record of maintenance work. For records of maintenance work beyond this, it is recommended that you keep your own lists.

6.3 Maintenance / Repair Record

Maintenance Work Performed		
Date	Signature	Remarks / Work Performed



WARNING!

It is critical that all eFutureSafe products and accessories be properly and securely attached to the vehicle. Improper attachment could result in serious injury and/or death. If you are unsure or unclear for any reason as to what is considered proper installation, please contact AMF-Brunns of America.

7) DE-COMMISSIONING AND CONSERVATIONS

For inquiries regarding De-Commissioning and Conservations, contact our customer services department (see Chapter 11, page 25).

8) FAULTS / TROUBLESHOOTING



WARNING!

- Risk of severe injury and material damage if repair work is carried out incorrectly. Only use a qualified technician for maintenance and repair work.
- If faults occur when operating eFutureSafe, 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
eFutureSafe can not be swivelled to the parking position.	There are obstacles in the swivelling range of eFutureSafe.	Remove any obstacles.
	The drive or the control system is defective.	Unlatch eFutureSafe using the emergency release (see Section 5.5, page 18). Do not continue to use eFutureSafe until repair work has been completed.
eFutureSafe can not be swivelled to the driving position.	There are bags or other objects hanging from the backrest of the wheelchair or within the swivelling range of eFutureSafe.	Remove any obstacles.
	The drive or the control system is defective.	After using Emergency Release, do not use eFutureSafe until repairs have been performed.
eFutureSafe makes noises when driving.	eFutureSafe fastenings have become loose.	Ensure all fasteners are properly tightened.
The height of the head-and-back supports can not be adjusted.	The guide or latch bushing is dirty or defective.	Inspect the guide and latch bushings. Clean or replace as necessary.

9) SPARE PARTS


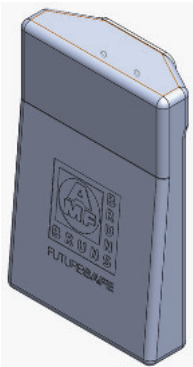
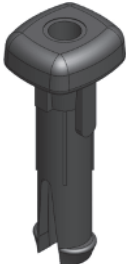
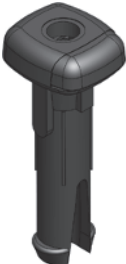

Figure!	Designation	Article No.
	Head-support	200412614
	Back-support	200412631
	Guide bushing	200249429
	Latch bushing	200249725
	Hex. protective cap SW17	10008439

Figure	Designation	Article No.
	Pillar Cladding	10022896
	Swivel Joint Cladding	10022897
	Locking Pin	200406018
	Control Unit	10022804
	Indicator Lamp	10022803
	Toggle Switch	10022925

10) ELECTRICAL CIRCUIT DIAGRAM

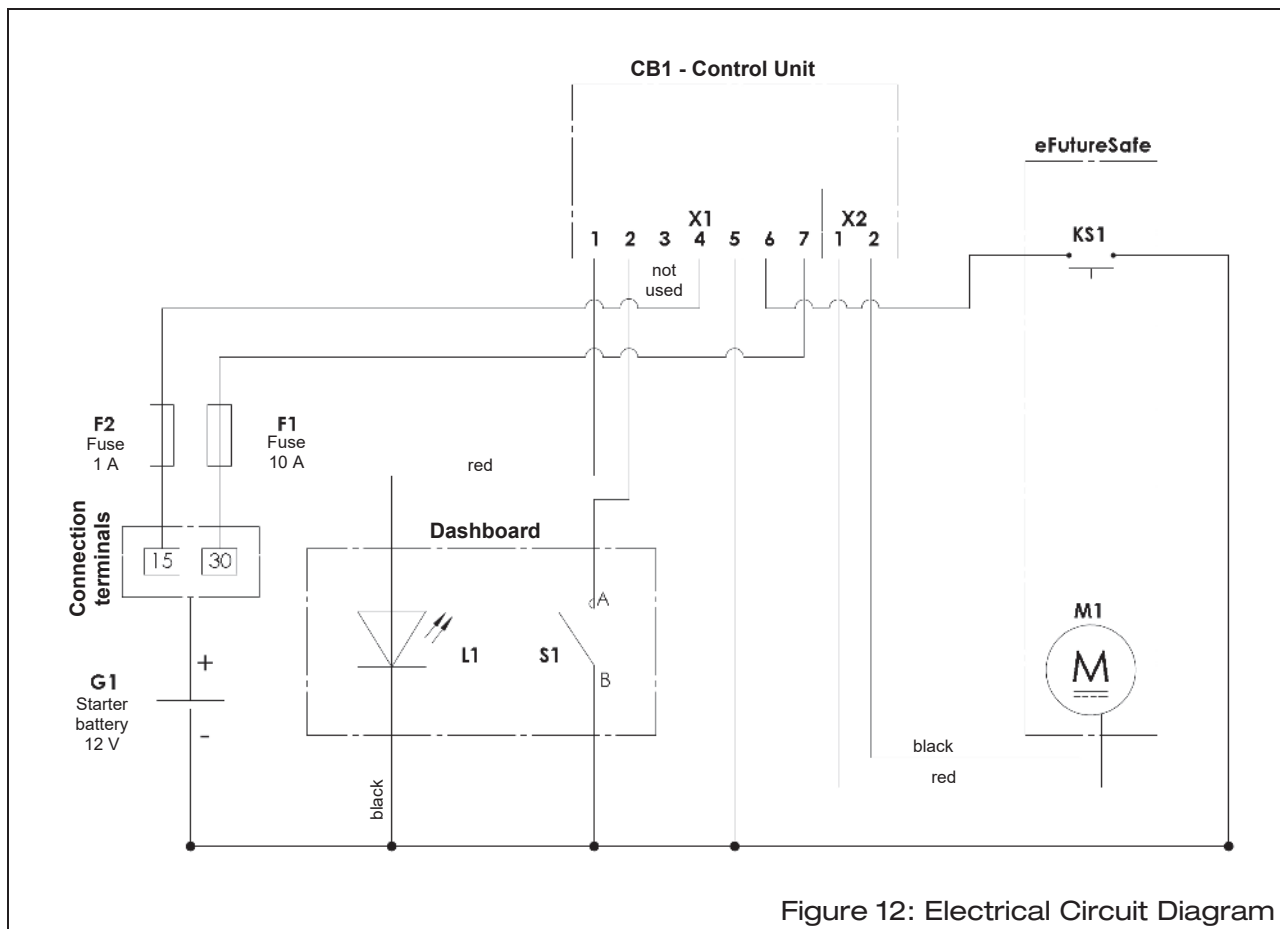


Figure 12: Electrical Circuit Diagram

Designation	Description
F1	Fuse 10 A – Signal 30 (control unit power supply)
F2	Fuse 1 A – Signal 15 (ignition)
G1	12 V starter battery
S1	Toggle switch (ON/OFF) in the dashboard
L1	Indicator lamp in the dashboard
M1	Electric motor in eFutureSafe
CB1	Control unit
KS1	Contact switch in eFutureSafe
X1	Plug-in connection to the control unit (7-pole)
X2	Plug-in connection to the control unit (2-pole)

11) CUSTOMER SERVICE

The AMF-Bruns of America customer service department will be more than pleased to assist in ordering spare parts, maintenance and repair work, and provide assistance with general problems or inquiries.

Reach Us At

📍 1797 Georgetown Road, Hudson – OH 44236

✉ Email: contact@amfbrunsamerica.com

☎ Phone: +1 877-506-3770 or 234-284-2073

🌐 Website: www.amfbrunsamerica.com

Business Hours

Monday-Friday: 7:30am to 4:30pm

Saturday & Sunday: Closed



NOTE

- Warranty work eFutureSafe must only be performed with the prior agreement of AMF-Bruns of America. The costs of such work will not be accepted by AMF-Bruns without prior agreement.
- This information is not all inclusive and may not cover or represent every installation. For additional information, refer to our website or call AMF-Bruns.

12) DECLARATION OF CONFORMITY**EC Declaration of Conformity**

According to EC Machine Directive 2006/42/EC, Annex II A, we, the manufacturer, hereby declare that the design and construction of eFutureSafe complies with the fundamental health and safety requirements of the EC Machinery Directive 2006/42/EC. This declaration is rendered null and void if unauthorized modifications are made to the product.

- **Designation:** Electrically-operated swivelling head-and-back support
- **Product:** eFutureSafe
- **Manufacturer:** AMF-Bruns of America
- **Address:** 1797 Georgetown Road, Hudson, OH 44236
- **Regulations:** Meets all applicable regulations and can withstand 15G rear collision forces and 20G frontal collisions.



North America

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