



BMW Motorrad



The Ultimate
Riding Machine

Instruction Manual

BMW Neck Brace Street

Introduction

The BMW Neck Brace Street is suitable for all safety-conscious motorcyclists from novices to professionals. Due to its easy handling by means of quick closure devices, the BMW Neck Brace Street can be used in connection with all standard helmets and motorcycle clothing items. In this way, as a motorcyclist, you are provided with additional protection against neck injuries as the cervical spine is relieved and the risk of injury or degree of injury can be reduced.

Abbreviations and symbols



Indicates warnings that you must comply with for reasons of your safety and the safety of others, and to protect your vehicle against damage.



Specific instructions on how to operate, control, adjust or look after items of equipment on the motorcycle.



Indicates the end of an item of information.



Instruction.



Result of an activity.



Reference to a page with more detailed information.



Indicates the end of a passage relating to specific accessories or items of equipment.



Tightening torque.



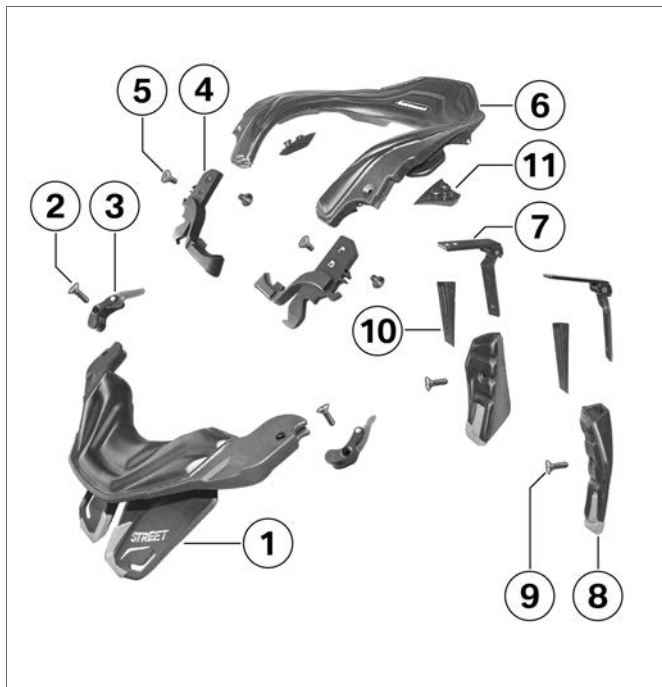
Technical data.

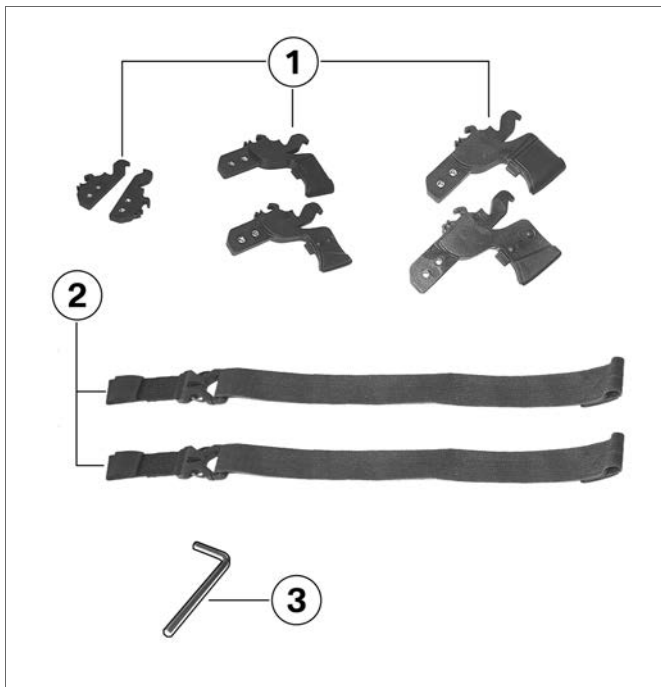
Table of Contents

1 Scope of supply	2
Scope of supply	2
Further scope of delivery	3
2 Size table	4
Legend	5
3 Adjustment	6
Prepare BMW Neck Brace Street	6
4 Maintenance	10
Maintenance and repair	10
5 Care	11
Clean and store Neck Brace Street	11
6 Safety	12
Personal protective equip- ment	12
7 CE marking	14
CE certification	14
Specification	14
8 Exclusion of liability	15
Exclusion of liability	15

Scope of supply

- 1** Front section
- 2** Screws M4 x 16
2 pcs
- 3** Closure
2 pcs left/right
- 4** Spacers 10 mm
2 pcs left/right
- 5** Screws M4 x 16
4 pcs
- 6** Back section
- 7** Top shoulder blade support
2 pcs left/right
- 8** Bottom shoulder blade support
2 pcs left/right
- 9** Screws M4 x 14
2 pcs
- 10** Adjustment wedge
2 pcs
- 11** Height adapter
2 pcs left/right





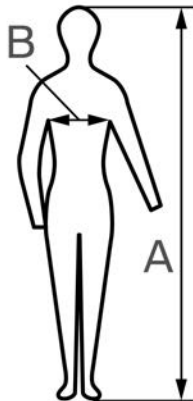
Further scope of delivery

- 1** Spacers in 3 sizes
0 mm
20 mm
30 mm
2 pcs each
- 2** Straps
2 pcs
- 3** Hexagon socket wrench

A		B						
		Zoll	21.6 - 33.5	33.9 - 35	35.4 - 37	37.4 - 43.3	43.7 - 45.3	45.7 - 47.6
		cm	55 - 85	86 - 89	90 - 94	95 - 110	111 - 115	116 - 121
3'6" - 4'7"	106 - 139	S/M						
4'7" - 5'1"	140 - 155	S/M	S/M					
5'1" - 5'4"	156 - 163	S/M	S/M	L/XL				
5'4" - 5'5"	164 - 166	S/M	S/M	L/XL	L/XL			
5'6" - 5'7"	167 - 169	S/M	S/M	L/XL	L/XL	XXL		
5'7" - 5'8"	170 - 172	S/M	S/M	L/XL	L/XL	XXL	XXL	
5'8" - 5'9"	173 - 175	S/M	S/M	L/XL	L/XL	XXL	XXL	
5'9" - 5'10"	176 - 178	S/M	S/M	L/XL	L/XL	XXL	XXL	
5'10" - 5'11"	179 - 181	S/M	S/M	L/XL	L/XL	XXL	XXL	
5'11" - 6'	181 - 183		S/M	L/XL	L/XL	XXL	XXL	
6' - 6'1"	183 - 185			L/XL	L/XL	XXL	XXL	
6'1" - 6'3"	185 - 190				L/XL	XXL	XXL	
6'3" - 6'4"	191 - 195					XXL	XXL	
6'4" - 6'6"	196 - 200						XXL	


ft

cm




Legend

- **A** = Body size

 Body size
– 97.5...183 cm (S/M)
– 156...190 cm (L/XL)
– min 167 cm (XXL)

- **B** = Chest measurement

 Chest measurement
– 55...89 cm (S/M)
– 90...110 cm (L/XL)
– 111...121 cm (XXL)

- The BMW Neck Brace Street can be adapted ideally to personal needs by putting it on step by step.
- Careful initial adaptation takes approx. 20 mins and is essential for a perfect functionality.

- If the BMW Neck Brace Street has been correctly adapted, it provides - complete with a suitable helmet - a full and safe movement range for head and neck (that is, clear vision upwards, downwards, to the right and left (looking back over your shoulder). If the normal safe range of head movements is fully utilised, the BMW Neck Brace Street and the helmet must come into contact with each other. If the full range of movement cannot be carried out or if the neck support does not contact the helmet (when the safe range of movement has been fully utilised), a further adaptation or another size is required. In rare cases a different helmet model may be necessary, in order to achieve the necessary measure of compatibility and safety. If you have any further

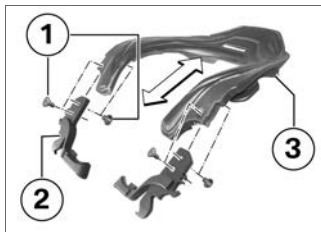
questions with regard to size selection, adaptation or adjustment please contact your BMW Motorrad partner.

Prepare BMW Neck Brace Street

Change spacer

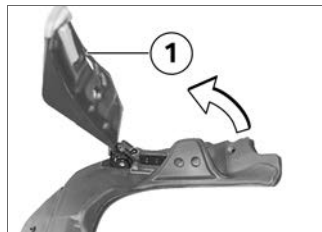
- The BMW Neck Brace Street is supplied with 4 pairs of differently sized spacers for individual adaptation. The 10 mm large spacer is fitted as standard. Start by adapting your back section to shoulder and chest, with shoulder blade supports removed, and then close the locking mechanism.
- If the BMW Neck Brace Street is too loose at the neck and uncomfortable (on your shoulders or chest), then the spacer must be changed (0 mm). If the BMW Neck Brace Street is too short and too tight, the spacer must also be changed (20 mm or 30 mm).
- In order to obtain maximum possible wear comfort of the

Neck Brace Street system and an exact adaptation to the body form, the following work steps are required.

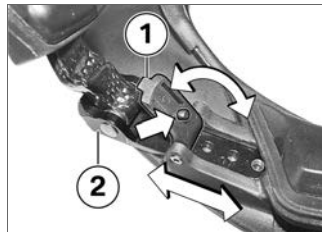


- Remove screws **1** and remove spacers **2** from back section **3**.
- Fit suitable spacers **2** to back section **3** and attach by means of screws **1**.

Adjusting shoulder blade top supports



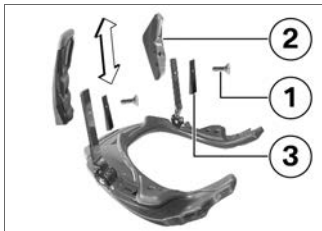
- Fully fold open shoulder blade top support **1**.



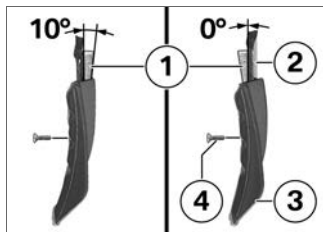
- Use suitable tool to open retaining clip **1**.

- Move shoulder blade top support **2** into the required position and close retaining clip **1**.
- » Lug **arrow** holds the shoulder blade top support in position **2**.

Adjusting shoulder blade bottom supports

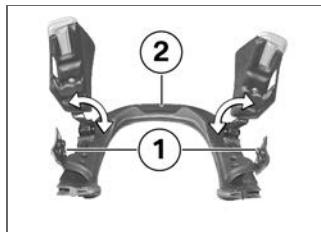


- The shoulder blade bottom support is adjusted to an angle of **10°** as standard.
- Remove screws **1**.
- Pull off lower shoulder blade support **2**.
- Remove adjustment wedge **3**.



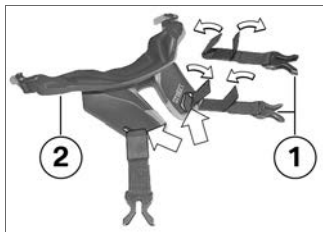
- The shoulder blade bottom support can be inserted by means of the adjustment wedge **1** optionally in **10°** position or in **zero position**.
- Fit adjustment wedge **1** in the required inclination position with the shoulder blade bottom support **2** before or after the shoulder blade top support **3** and use screw **4** to attach.

Fit height adapter



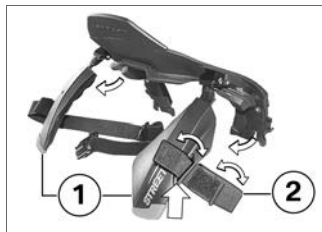
- For a higher fit of the BMW Neck Brace Street on the shoulder the height adapters **1** can be fitted by lightly pressing them onto the back section **2**. If the adapters are not required, they can just as easily be removed.

Fit attachment straps to the front section



- Open velcro elements of the attachment straps **1**.
- Feed attachment straps **1** through the apertures **arrows** of the front section **2**.
- Close velcro elements of the attachment straps **1**.

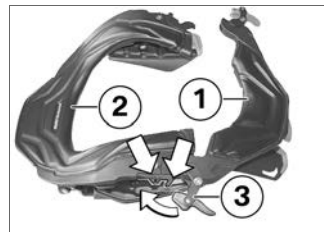
Fit attachment straps to shoulder blade supports



- Fully fold open shoulder blade top support **1**.
- Open velcro elements of the attachment straps **2**.
- Feed the attachment straps **2** through the apertures **arrow** of the shoulder blade top support **1**.
- Close velcro elements of the attachment straps **2**.

Wearing BMW Neck Brace Street

▶ The Neck Brace Street can be worn comfortably over a motorcycle jacket as well as a single or two-part leather combination with aerodynamic spoiler. ◀



- For easier wearing of the BMW Neck Brace Street it is recommended to join the front and back sections initially on one side only.
- Fit front section **1** and back section **2** on the right-hand side.

- Hook closure on the right **3** into bottom hook **arrow** and engage with a rotational movement in the direction of the back section **2** into the fixation **arrow**.



- Fully fold open shoulder blade top support **1** from the back section **2**.
- Allow back section **2** to rest on the aerodynamic spoiler; ensure the correct fit of the shoulder blade top support **1**.



- Join front section **1** and back section **2** on the left-hand side.
- Hook closure on the left **3** into the bottom hook **arrow** and engage with a rotational movement in the direction of the back section **2** in the fixation **arrow**.



- Feed both straps **1** forward underneath the arms.
- Close insertion couplings **2**.
- Tighten both straps **1**.

Maintenance and repair

- For an optimum performance the BMW Neck Brace Street must be checked before each use.
 - It must no longer be used if any components, in particular front section, hinge levers, connecting pieces, braces, nylon washers or the back section (see list of parts or components) are worn, torn off or have become deformed or if the interior padding has become damaged.
 - It is recommended to replace the BMW Neck Brace Street under normal racing conditions every 2 years and, as a matter of principle, to replace all components damaged by serious accidents.
 - Following an accident or in the event of any sign of damage, cracks or deformations of individual components the BMW Neck Brace Street should be examined by a BMW Partner.
- No modifications whatsoever may be carried out on the BMW Neck Brace Street.
 - The BMW Neck Brace Street must not be painted, trimmed or heated.
 - All modifications may have a detrimental effect on the effectiveness and safety of the BMW Neck Brace Street.
 - The BMW Neck Brace Street must always be taken off such that it cannot drop to the ground. Any damage arising in such a way is not covered by the warranty.
 - In the case of a major repair please contact your BMW Motorrad Partner.

Clean and store Neck Brace Street

- Wash the BMW Neck Brace Street and the fitted padding by means of some mild soap only or a mild cleaning agent in cold water, rinse with cold water and dry with a cloth only.
 - Trade standard agents (solvents, cleaning agents, hair tonic etc.), which come into contact with the BMW Neck Brace Street may cause damage. Such damage may possibly not be detected by the user and affect the effectiveness or the safety of the BMW Neck Brace Street.
 - Always read the material composition label on the BMW Neck Brace Street.
 - None of the materials used comprise substances known to be causing allergic reactions or to be detrimental to health.
- Store the BMW Neck Brace Street on a clean and dry surface and in a dry well-ventilated surrounding area, protected against direct sunlight and extreme temperatures.
 - Do not place any heavy objects on the BMW Neck Brace Street.

Personal protective equipment

In order to reach its optimum performance, BMW Neck Brace Street must be correctly adapted and attached as required by the operating instructions.

It is recommended to use BMW Neck Brace Street only in connection with a helmet complete with chin protection (but not with a Jet helmet).

Always attach your helmet carefully and properly in accordance with the manufacturer's instructions.

Ensure that no part of your protective equipment has exceeded its recommended service life.

In all your travels or racing journeys **Safety** must be the highest imperative.

The BMW Neck Brace Street is always used at your own risk.

Motorsports can be dangerous. A participation in such activities may cause serious brain, head and neck injuries.

The design principle of the BMW Neck Brace Street is based on bringing the head to a controlled stop during an accident or crash.

This is achieved by means of a padded rigid structure which serves as an alternative load path for the forces acting on the neck. Helmet impact forces which are otherwise transmitted from the helmet to the head and subsequently to the neck, are to be diverted from the helmet to the BMW Neck Brace Street and subsequently to other body structures.

The BMW Neck Brace Street is to prevent that the helmet or head is moved beyond the BMW Neck Brace Street. The BMW Neck Brace Street can be

worn together with most types of body and chest protectors for M sport. On long journeys the BMW Neck Brace Street additionally provides strain relief for the neck muscles.

The BMW Neck Brace Street helps with the prevention of the following extreme movements:

- Hyperflexion
- Hypertension
- Lateral hyperflexion
- Posterior hypertranslation
- Coupled axial load

The BMW Neck Brace Street cannot protect against all possible crash situations or injuries. Although the BMW Neck Brace Street has been designed to reduce the risk of such injuries, there is no guarantee that the use of this product prevents any injury.

All M sport activities must always be carried out with caution and suitable protective equipment.

CE certification

The BMW Neck Brace Street has been tested according to the manufacturer's specifications and the EU type approval procedure by the accredited test laboratory Ricotest, Via Tione 9, - 37010 Pastrengo (VR), (registered agency no. 0498) and displays the CE mark signifying compliance with EU Directive 89/686/EEC on personal protective equipment.

Specification

The BMW Neck Brace Street is the result of many years of research and comprehensive analyses and evaluations of head and neck injuries, examinations in test facilities and calculations with simulation software.

The Neck Brace Street was trialled with the help of various different static and dynamic tests.

For testing this product, the following test specifications have been used a.o.:

- Instrumented Eurotype Hybrid III slide tests (Land Mobility Technologies Document no. P/2/00/00431, May 2004).
- BMW pendulum test and validation model with Lifemod - BMW-test laboratories, Munich, Germany (2006).
- Innovations at BMW Motorrad in the development of protection equipment for motorcyclists to reduce the risk of injury as exemplified by the neck support system (Report of the 6th international conference for Safety - Environment - Future, Cologne, Germany 9. - 10. October 2006).
- Side impact simulations by means of a validated pendulum test method (Leatt Corporation Biomechanics Division).

- EN 340 - (Protective clothing - General requirements).

The first five test specifications listed examine the capabilities of the BMW Neck Brace Street to reduce forward and return movements of the wearer's head and neck during a crash or an impact onto the road surface.

Further examinations comprise the resistance of the retaining elements of the BMW Neck Brace Street against opening as a result of any impact.

The chemical contents of the materials and components was analysed in accordance with the requirements of EN 340.

Exclusion of liability

The purchase and receipt conditions for the Neck Brace Street include that the user has fully read and understood the operating instructions and is aware that even though the neck support has been designed to reduce neck injuries when it is worn together with an integral helmet, there is no guarantee that an injury will be prevented by wearing the neck support.

Each neck support must be adapted to the individual user and be of the correct size and fit.

The purchase and/or receipt conditions of the Neck Brace Street also include that the user has read and familiarised himself / herself with the technical notes, research and test results on the Neck Brace Street and has understood the effectiveness of the neck support, its purpose and correct adaptation.

The purchase and/or receipt conditions of the Neck Brace Street include further that the user understands and is aware that the neck support has not been tested in racing conditions on drivers for instrumented impact analysis.

Attach your helmet always correctly in accordance with the manufacturer's instructions.

Ensure that no part of your safety equipment has exceeded its recommended service life and consider safety as an important imperative for all journeys.

In the event of an impact or accident:

- 1. If your Neck Brace Street should have become damaged as a result of a serious accident, no warranty claim is possible.
- 2. The Neck Brace Street has been designed such that, for your protection, it becomes

damaged during an accident that is, the back brace will tear off.

Depending on the scope of equipment or accessories of your product from BMW Motorrad but also in the case of country-specific versions, deviations from the details described or illustrated in this booklet may occur. No claims will be entertained as a result of such discrepancies.

Dimensions, weights, fuel consumption and performance data are quoted to the customary tolerances.

The right to modify designs, equipment and accessories is reserved.

Errors and omissions excepted.

©2012 BMW Motorrad

Not to be reproduced either wholly or in part without written permission from BMW Motorrad, After Sales.

Printed in Germany.

Order No.: 76 43 8 536 075
03/2013, 1st edition

