

Front Fork kit for BMW R nineT (Sachs)

# FGK 2310

Spare Parts List



### **Safety Precautions**

## Note!

The front fork is a very important part of the vehicle and will therefore affect the stability of the vehicle.

- Read and make sure that you understand the information in this manual and the mounting instructions before you use this product. If you have any questions regarding installation or maintenance please contact your nearest Öhlins dealer.
- Öhlins Racing AB can not be held responsible for any damage to the front fork, vehicle, other property or injury to persons, if the instructions for installing and maintenance are not followed exactly.

# ▲ Warning!

This product was developed and designed exclusively for a specific vehicle model and should only be installed on the intended vehicle model in its original condition as delivered from the vehicle manufacturer.

⚠ This product contains pressurized nitrogen gas (N²). Do not open, service or modify this product without proper education (authorized Öhlins dealer/distributor) or proper tools.

After installing this product, take a test ride at low speed to make sure that your vehicle has maintained its stability.

#### Note!

When working on this product, always consult your Vehicle Service Manual.

This Manual should be considered as a part of the product and should therefore accompany the product throughout its life cycle.

# Safety Symbols

In this manual, mounting instructions and other technical documents, important information concerning safety is distinguished by the following symbols:



The Safety Alert Symbol means: Warning! Your safety is involved.

## ▲ Warning!

The Warning Symbol means: Failure to follow warning instructions can result in severe or fatal injury to anyone working with, inspecting or using the front fork, or to bystanders.

# Caution!

The Caution Symbol means: Special precautions must be taken to avoid damage to the front fork.

#### Note!

The Note Symbol indicates information that is important regarding procedures.

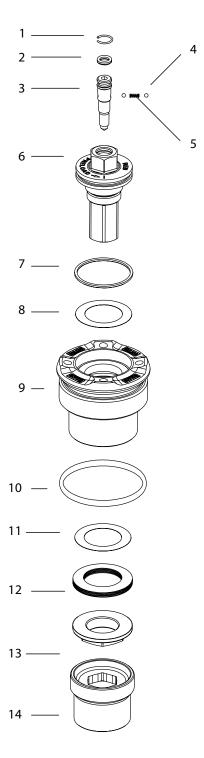
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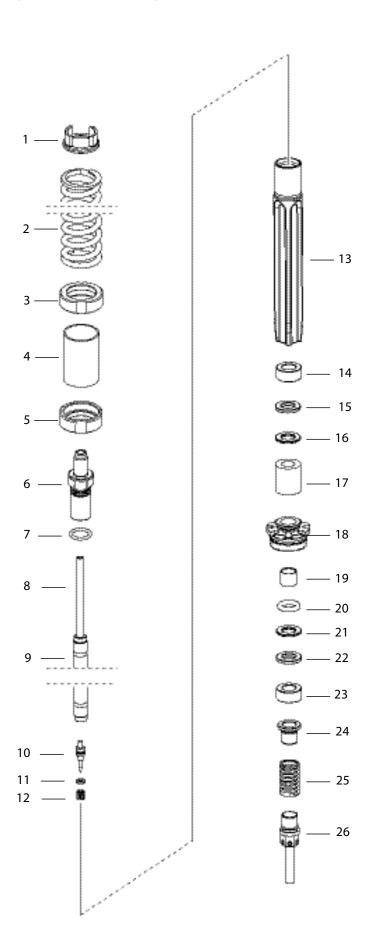
Fig 1 - Top cap
Fig 2 - Shaft Assembly
Fig 3 - Damping unit

Figure 1 - Top Cap



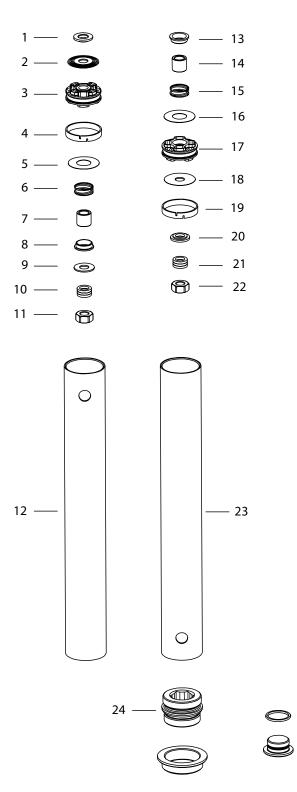
Pos	Part No	Pcs	Description	Notes
1-1	01473-01	2	Circlip	
1-2	00577-01	2	O-ring	
1-3	01467-02	2	Adjuster	
1-4	00884-04	4	Ball	
1-5	01474-01	2	Spring	
1-6	03312-07	1	Adjuster	comp.
1-6	03312-08	1	Adjuster	rebound
1-7	00338-72	2	O-ring	
1-8	03309-01	2	Shim	
1-9	21653-09	2	Housing	
1-10	00438-26	2	O-ring	
1-11	03309-01	2	Shim	
1-12	03317-01	8	Spring washer	
1-13	03313-01	2	Nut	
1-14	03315-01	2	Preload socket	

Figure 2 - Shaft Assembly



2-1         03316-02         2         Spring support           2-2         08790-85         2         Spring         or 04744-85           08790-90         2         Spring         or 04744-90           08790-95         2         Spring         or 04744-95           08790-10         2         Spring         or 04744-10           08790-05         2         Spring         or 04744-05           08790-11         2         Spring         or 04744-11           2-3         21669-01         4         Guide ring           2-4         01460-76         2         Preload tube           2-5         01438-02         2         Guide ring           2-6         03314-12         2         Shaft extension           2-7         00338-76         2         O-ring           2-8         02366-08         2         Adjustment rod           2-9         21637-01         2         Shaft           2-10         01698-15         2         Needle           2-11         00438-31         2         O-ring           2-12         02322-01         2         Spring           2-13         21663-01         2	Pos	Part No	Pcs	Description	Notes
08790-90         2         Spring         or 04744-90           08790-95         2         Spring         or 04744-95           08790-10         2         Spring         or 04744-10           08790-05         2         Spring         or 04744-10           08790-11         2         Spring         or 04744-05           08790-11         2         Spring         or 04744-11           2-3         21669-01         4         Guide ring           2-4         01460-76         2         Preload tube           2-5         01438-02         2         Guide ring           2-6         03314-12         2         Shaft extension           2-7         00338-76         2         O-ring           2-8         02366-08         2         Adjustment rod           2-9         21637-01         2         Shaft           2-10         01698-15         2         Needle           2-11         00438-31         2         O-ring           2-12         02322-01         2         Spring           2-13         21663-01         2         Guide sleeve           2-14         21620-xx         Spacer         See Spec.c	2-1	03316-02	2	Spring support	
08790-95         2         Spring         or 04744-95           08790-10         2         Spring         or 04744-10           08790-05         2         Spring         or 04744-05           08790-11         2         Spring         or 04744-11           2-3         21669-01         4         Guide ring           2-4         01460-76         2         Preload tube           2-5         01438-02         2         Guide ring           2-6         03314-12         2         Shaft extension           2-7         00338-76         2         O-ring           2-8         02366-08         2         Adjustment rod           2-9         21637-01         2         Shaft           2-10         01698-15         2         Needle           2-11         00438-31         2         O-ring           2-12         02322-01         2         Spring           2-13         21663-01         2         Guide sleeve           2-14         21620-xx         Spacer         See Spec.card           2-15         21620-xx         Spacer         See Spec.card           2-18         21647-03         2         Seal	2-2	08790-85	2	Spring	or 04744-85
08790-10         2         Spring         or 04744-10           08790-05         2         Spring         or 04744-05           08790-11         2         Spring         or 04744-01           2-3         21669-01         4         Guide ring           2-4         01460-76         2         Preload tube           2-5         01438-02         2         Guide ring           2-6         03314-12         2         Shaft extension           2-7         00338-76         2         O-ring           2-8         02366-08         2         Adjustment rod           2-9         21637-01         2         Shaft           2-10         01698-15         2         Needle           2-11         00438-31         2         O-ring           2-12         02322-01         2         Spring           2-13         21663-01         2         Guide sleeve           2-14         21620-xx         Spacer         See Spec.card           2-15         21620-xx         Spacer         See Spec.card           2-16         21620-xx         Spacer         See Spec.card           2-19         00110-03         2		08790-90	2	Spring	or 04744-90
08790-05         2         Spring         or 04744-05           08790-11         2         Spring         or 04744-11           2-3         21669-01         4         Guide ring           2-4         01460-76         2         Preload tube           2-5         01438-02         2         Guide ring           2-6         03314-12         2         Shaft extension           2-7         00338-76         2         O-ring           2-8         02366-08         2         Adjustment rod           2-9         21637-01         2         Shaft           2-10         01698-15         2         Needle           2-11         00438-31         2         O-ring           2-12         02322-01         2         Spring           2-13         21663-01         2         Guide sleeve           2-14         21620-xx         Spacer         See Spec.card           2-15         21620-xx         Spacer         See Spec.card           2-17         01580-01         2         Bump rubber           2-18         21647-03         2         Seal head           2-19         00110-03         2         Bushing <td></td> <td>08790-95</td> <td>2</td> <td>Spring</td> <td>or 04744-95</td>		08790-95	2	Spring	or 04744-95
08790-11         2         Spring         or 04744-11           2-3         21669-01         4         Guide ring           2-4         01460-76         2         Preload tube           2-5         01438-02         2         Guide ring           2-6         03314-12         2         Shaft extension           2-7         00338-76         2         O-ring           2-8         02366-08         2         Adjustment rod           2-9         21637-01         2         Shaft           2-10         01698-15         2         Needle           2-11         00438-31         2         O-ring           2-12         02322-01         2         Spring           2-13         21663-01         2         Guide sleeve           2-14         21620-xx         Spacer         See Spec.card           2-15         21620-xx         Spacer         See Spec.card           2-16         21620-xx         Spacer         See Spec.card           2-19         00110-03         2         Bushing           2-20         00438-28         2         O-ring           2-21         21620-xx         2         Spacer		08790-10	2	Spring	or 04744-10
2-3         21669-01         4         Guide ring           2-4         01460-76         2         Preload tube           2-5         01438-02         2         Guide ring           2-6         03314-12         2         Shaft extension           2-7         00338-76         2         O-ring           2-8         02366-08         2         Adjustment rod           2-9         21637-01         2         Shaft           2-10         01698-15         2         Needle           2-11         00438-31         2         O-ring           2-12         02322-01         2         Spring           2-13         21663-01         2         Guide sleeve           2-14         21620-xx         Spacer         See Spec.card           2-15         21620-xx         Spacer         See Spec.card           2-16         21620-xx         Spacer         See Spec.card           2-17         01580-01         2         Bushing           2-19         00110-03         2         Bushing           2-20         00438-28         2         O-ring           2-21         21620-xx         2         Spacer		08790-05	2	Spring	or 04744-05
2-4         01460-76         2         Preload tube           2-5         01438-02         2         Guide ring           2-6         03314-12         2         Shaft extension           2-7         00338-76         2         O-ring           2-8         02366-08         2         Adjustment rod           2-9         21637-01         2         Shaft           2-10         01698-15         2         Needle           2-11         00438-31         2         O-ring           2-12         02322-01         2         Spring           2-13         21663-01         2         Guide sleeve           2-14         21620-xx         Spacer         See Spec.card           2-15         21620-xx         Spacer         See Spec.card           2-16         21620-xx         Spacer         See Spec.card           2-17         01580-01         2         Bushing           2-19         00110-03         2         Bushing           2-20         00438-28         2         O-ring           2-21         21620-xx         4         Spacer         See Spec.card           2-22         21620-xx         2		08790-11	2	Spring	or 04744-11
2-5 01438-02 2 Guide ring  2-6 03314-12 2 Shaft extension  2-7 00338-76 2 O-ring  2-8 02366-08 2 Adjustment rod  2-9 21637-01 2 Shaft  2-10 01698-15 2 Needle  2-11 00438-31 2 O-ring  2-12 02322-01 2 Spring  2-13 21663-01 2 Guide sleeve  2-14 21620-xx Spacer See Spec.card  2-15 21620-xx Spacer See Spec.card  2-16 21620-xx Spacer See Spec.card  2-17 01580-01 2 Bump rubber  2-18 21647-03 2 Seal head  2-19 00110-03 2 Bushing  2-20 00438-28 2 O-ring  2-21 21620-xx Spacer See Spec.card  2-22 21620-xx Spacer See Spec.card  2-23 21620-xx Spacer See Spec.card  2-24 01653-01 2 Sleeve top out spring  2-25 01585-01 2 Top out spring	2-3	21669-01	4	Guide ring	
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2-7         00338-76         2         O-ring           2-8         02366-08         2         Adjustment rod           2-9         21637-01         2         Shaft           2-10         01698-15         2         Needle           2-11         00438-31         2         O-ring           2-12         02322-01         2         Spring           2-13         21663-01         2         Guide sleeve           2-14         21620-xx         Spacer         See Spec.card           2-15         21620-xx         Spacer         See Spec.card           2-16         21620-xx         Spacer         See Spec.card           2-17         01580-01         2         Bump rubber           2-18         21647-03         2         Seal head           2-19         00110-03         2         Bushing           2-20         00438-28         2         O-ring           2-21         21620-xx         4         Spacer         See Spec.card           2-22         21620-xx         2         Spacer         See Spec.card           2-23         21620-xx         2         Spacer         See Spec.card           2-24<	2-5	01438-02	2	Guide ring	
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2-9       21637-01       2       Shaft         2-10       01698-15       2       Needle         2-11       00438-31       2       O-ring         2-12       02322-01       2       Spring         2-13       21663-01       2       Guide sleeve         2-14       21620-xx       Spacer       See Spec.card         2-15       21620-xx       Spacer       See Spec.card         2-16       21620-xx       Spacer       See Spec.card         2-17       01580-01       2       Bump rubber         2-18       21647-03       2       Seal head         2-19       00110-03       2       Bushing         2-20       00438-28       2       O-ring         2-21       21620-xx       4       Spacer       See Spec.card         2-22       21620-xx       2       Spacer       See Spec.card         2-23       21620-xx       2       Spacer       See Spec.card         2-24       01653-01       2       Sleeve top out spring         2-25       01585-01       2       Top out spring	2-7	00338-76	2	O-ring	
2-10       01698-15       2       Needle         2-11       00438-31       2       O-ring         2-12       02322-01       2       Spring         2-13       21663-01       2       Guide sleeve         2-14       21620-xx       Spacer       See Spec.card         2-15       21620-xx       Spacer       See Spec.card         2-16       21620-xx       Spacer       See Spec.card         2-17       01580-01       2       Bump rubber         2-18       21647-03       2       Seal head         2-19       00110-03       2       Bushing         2-20       00438-28       2       O-ring         2-21       21620-xx       4       Spacer       See Spec.card         2-22       21620-xx       2       Spacer       See Spec.card         2-23       21620-xx       2       Spacer       See Spec.card         2-24       01653-01       2       Sleeve top out spring         2-25       01585-01       2       Top out spring	2-8	02366-08	2	Adjustment rod	
2-11       00438-31       2       O-ring         2-12       02322-01       2       Spring         2-13       21663-01       2       Guide sleeve         2-14       21620-xx       Spacer       See Spec.card         2-15       21620-xx       Spacer       See Spec.card         2-16       21620-xx       Spacer       See Spec.card         2-17       01580-01       2       Bump rubber         2-18       21647-03       2       Seal head         2-19       00110-03       2       Bushing         2-20       00438-28       2       O-ring         2-21       21620-xx       4       Spacer       See Spec.card         2-22       21620-xx       2       Spacer       See Spec.card         2-23       21620-xx       2       Spacer       See Spec.card         2-24       01653-01       2       Sleeve top out spring         2-25       01585-01       2       Top out spring	2-9	21637-01	2	Shaft	
2-12       02322-01       2       Spring         2-13       21663-01       2       Guide sleeve         2-14       21620-xx       Spacer       See Spec.card         2-15       21620-xx       Spacer       See Spec.card         2-16       21620-xx       Spacer       See Spec.card         2-17       01580-01       2       Bump rubber         2-18       21647-03       2       Seal head         2-19       00110-03       2       Bushing         2-20       00438-28       2       O-ring         2-21       21620-xx       4       Spacer       See Spec.card         2-22       21620-xx       2       Spacer       See Spec.card         2-23       21620-xx       2       Spacer       See Spec.card         2-24       01653-01       2       Sleeve top out spring         2-25       01585-01       2       Top out spring	2-10	01698-15	2	Needle	
2-13       21663-01       2       Guide sleeve         2-14       21620-xx       Spacer       See Spec.card         2-15       21620-xx       Spacer       See Spec.card         2-16       21620-xx       Spacer       See Spec.card         2-17       01580-01       2       Bump rubber         2-18       21647-03       2       Seal head         2-19       00110-03       2       Bushing         2-20       00438-28       2       O-ring         2-21       21620-xx       4       Spacer       See Spec.card         2-22       21620-xx       2       Spacer       See Spec.card         2-23       21620-xx       2       Spacer       See Spec.card         2-24       01653-01       2       Sleeve top out spring         2-25       01585-01       2       Top out spring	2-11	00438-31	2	O-ring	
2-14         21620-xx         Spacer         See Spec.card           2-15         21620-xx         Spacer         See Spec.card           2-16         21620-xx         Spacer         See Spec.card           2-17         01580-01         2         Bump rubber           2-18         21647-03         2         Seal head           2-19         00110-03         2         Bushing           2-20         00438-28         2         O-ring           2-21         21620-xx         4         Spacer         See Spec.card           2-22         21620-xx         2         Spacer         See Spec.card           2-23         21620-xx         2         Spacer         See Spec.card           2-24         01653-01         2         Sleeve top out spring           2-25         01585-01         2         Top out spring	2-12	02322-01	2	Spring	
2-15         21620-xx         Spacer         See Spec.card           2-16         21620-xx         Spacer         See Spec.card           2-17         01580-01         2         Bump rubber           2-18         21647-03         2         Seal head           2-19         00110-03         2         Bushing           2-20         00438-28         2         O-ring           2-21         21620-xx         4         Spacer         See Spec.card           2-22         21620-xx         2         Spacer         See Spec.card           2-23         21620-xx         2         Spacer         See Spec.card           2-24         01653-01         2         Sleeve top out spring           2-25         01585-01         2         Top out spring	2-13	21663-01	2	Guide sleeve	
2-16         21620-xx         Spacer         See Spec.card           2-17         01580-01         2         Bump rubber           2-18         21647-03         2         Seal head           2-19         00110-03         2         Bushing           2-20         00438-28         2         O-ring           2-21         21620-xx         4         Spacer         See Spec.card           2-22         21620-xx         2         Spacer         See Spec.card           2-23         21620-xx         2         Spacer         See Spec.card           2-24         01653-01         2         Sleeve top out spring           2-25         01585-01         2         Top out spring	2-14	21620-xx		Spacer	See Spec.card
2-17       01580-01       2       Bump rubber         2-18       21647-03       2       Seal head         2-19       00110-03       2       Bushing         2-20       00438-28       2       O-ring         2-21       21620-xx       4       Spacer       See Spec.card         2-22       21620-xx       2       Spacer       See Spec.card         2-23       21620-xx       2       Spacer       See Spec.card         2-24       01653-01       2       Sleeve top out spring         2-25       01585-01       2       Top out spring	2-15	21620-xx		Spacer	See Spec.card
2-18       21647-03       2       Seal head         2-19       00110-03       2       Bushing         2-20       00438-28       2       O-ring         2-21       21620-xx       4       Spacer       See Spec.card         2-22       21620-xx       2       Spacer       See Spec.card         2-23       21620-xx       2       Spacer       See Spec.card         2-24       01653-01       2       Sleeve top out spring         2-25       01585-01       2       Top out spring	2-16	21620-xx		Spacer	See Spec.card
2-19       00110-03       2       Bushing         2-20       00438-28       2       O-ring         2-21       21620-xx       4       Spacer       See Spec.card         2-22       21620-xx       2       Spacer       See Spec.card         2-23       21620-xx       2       Spacer       See Spec.card         2-24       01653-01       2       Sleeve top out spring         2-25       01585-01       2       Top out spring	2-17	01580-01	2	Bump rubber	
2-20     00438-28     2     O-ring       2-21     21620-xx     4     Spacer     See Spec.card       2-22     21620-xx     2     Spacer     See Spec.card       2-23     21620-xx     2     Spacer     See Spec.card       2-24     01653-01     2     Sleeve top out spring       2-25     01585-01     2     Top out spring	2-18	21647-03	2	Seal head	
2-21       21620-xx       4       Spacer       See Spec.card         2-22       21620-xx       2       Spacer       See Spec.card         2-23       21620-xx       2       Spacer       See Spec.card         2-24       01653-01       2       Sleeve top out spring         2-25       01585-01       2       Top out spring	2-19	00110-03	2	Bushing	
2-22       21620-xx       2       Spacer       See Spec.card         2-23       21620-xx       2       Spacer       See Spec.card         2-24       01653-01       2       Sleeve top out spring         2-25       01585-01       2       Top out spring	2-20	00438-28	2	O-ring	
2-23     21620-xx     2     Spacer     See Spec.card       2-24     01653-01     2     Sleeve top out spring       2-25     01585-01     2     Top out spring	2-21	21620-xx	4	Spacer	See Spec.card
2-24 01653-01 2 Sleeve top out spring 2-25 01585-01 2 Top out spring	2-22	21620-xx	2	Spacer	See Spec.card
2-25 01585-01 2 Top out spring	2-23	21620-xx	2	Spacer	See Spec.card
7 3	2-24	01653-01	2	Sleeve top out spring	
2-26 01654-03 2 Piston holder	2-25	01585-01	2	Top out spring	
	2-26	01654-03	2	Piston holder	

Figure 3 - Damping unit



Pos	Part No	Pcs	Description	Notes
3-1	21750-16	1	Washer	
3-2	-	-	Shim stack	See Spec.card
3-3	21645-02	1	Piston	Compression
3-4	01447-03	1	Piston ring	Compression
3-5	00520-26	1	Check valve shim	Compression
3-6	01693-03	1	Check valve spring	Compression
3-7	01669-06	1	Sleeve	Compression
3-8	01672-01	1	Spring collar	Compression
3-9	00120-01	1	Washer	Compression
3-10	01674-01	3	Washer	Compression
3-11	01657-01	1	Nut	Compression
3-12	21646-01	1	Cylinder tube	Compression
3-13	01672-01	1	Spring collar	Rebound
3-14	01669-06	1	Sleeve	Rebound
3-15	01693-03	1	Check valve spring	Rebound
3-16	00520-26	1	Check valve shim	Rebound
3-17	21645-02	1	Piston	Rebound
3-18	-	-	Shim stack	See Spec.card
3-19	01447-03	1	Piston ring	Rebound
3-20	21750-16	1	Washer	
3-21	01674-01	3	Washer	Rebound
3-22	01657-01	1	Nut	Rebound
3-23	21646-01	1	Cylinder tube	Rebound
3-24	21649-07	2	Adaptor	<u> </u>

Your Öhlins retailer:





Öhlins Racing AB Box 722 SE-194 27, Upplands Väsby Sweden

Phone: +46 (0)8 590 025 00 Fax: +46 (0)8 590 025 80 www.ohlins.com

