

Note!

Please note that there can be small differences between your product and the images in these instructions.

Note!

Please note that during storage and transport, especially at high ambient temperature, some of the oil and grease used for assembly may leak and stain the packaging. This will not cause damage to the product, wipe off the excessive oil or grease with a cloth.

Note!

This product can not be used together with the BMW DDC system. This product can only be used together with non-electric units.

Kit Contents		
Description	**Part No**	**Pcs**
Front fork kit	FKS 530	1
O-ring	00438-26	2
Sticker set Öhlins	-	-
Owner's manual	07284-01	1

⚠ Warning!

This kit should only be installed by an authorized Öhlins dealer. The installation procedure requires certain tools.

Note!

Before you install this product, check the kit contents. If anything is missing, please contact an Öhlins dealer.

⚠ Warning!

Before you install this product, read the Öhlins Owner's manual and this document. This product is an important part of the vehicle and the vehicle stability.

Front Fork Kit for BMW R12 nineT

FKS 530

Mounting Instructions

ÖHLINS

MOUNTING INSTRUCTIONS

⚠ Warning!

We strongly recommend to let an Öhlins dealer install this product.

⚠ Warning!

If you work with a lifted vehicle, make sure that it is safely supported to prevent it from tipping over.

👁 Note!

When you work with this product, see the vehicle service manual for vehicle specific procedures and important data.

👁 Note!

Before you install this product clean the vehicle.

⚠ Warning!

Spring compression creates a potential danger because of the violent force that loaded springs are capable of. Beware of this when you work with the front fork.

TOOLS, GREASE AND FLUID

Tools needed for the original front fork

- Refer to the vehicle service manual for tools needed for removing/installing the front fork from the vehicle.
- Refer to the vehicle service manual for tools needed for removing the cartridge from the front fork.

Tools needed for the Öhlins cartridge kit

Tool	Part no	Applies	Size
Vehicle service manual			
Torque wrench			
Wrench		Shaft extension	19 mm
Hex key		Compression and rebound bleed adjusters	3 mm
Socket		Preload adjuster	14 mm
Ruler		Suspension fluid level	
Öhlins tool	01765-03	Shaft extension	
Wrench		Top cap	50 mm
Öhlins tool	01797-07	Seal head	
Suspension fluid	01309-xx		
Grease	00146-01		100 g

MOUNTING INSTRUCTIONS

1 Remove the original front fork

Note!

The following procedure applies to both front fork legs.

1.1

Put the motorcycle on a workstand so that the front wheel barely touches the ground.

⚠ Warning!

Make sure the vehicle is securely supported so that it will not fall over.

1.2

Remove front fender, brake calipers, speed sensor (if present) and front wheel.

1.3

Release main spring preload fully (if present).

1.4

Note front fork position.

1.5

Loosen upper triple clamp.

1.6

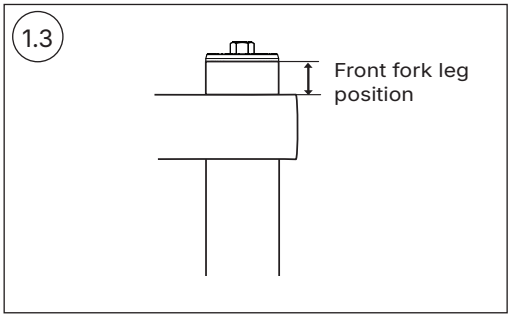
Loosen (do not remove) top cap 1/2 turn.

1.7

Loosen lower triple clamp.

1.8

Remove front fork legs from triple clamps.



MOUNTING INSTRUCTIONS

2 Disassemble original front fork

Remove original

2.1
Loosen top cap from outer tube.

2.2
Slide outer tube down until it stops.

2.3
Loosen and remove top cap from shaft according to vehicle service manual.

2.4
Remove main spring and surrounding parts from front fork leg.

2.5
Drain front fork leg of suspension fluid.

2.6
Loosen cartridge according to vehicle service manual.

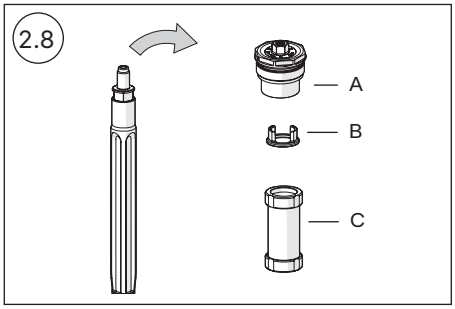
2.7
Remove cartridge from front fork leg.

Install the Öhlins cartridge kit

✋ Caution!

The cartridge kit is divided into compression and rebound cartridges.
Install compression cartridge marked "COMP" in left hand side front fork leg.
Install rebound cartridge marked "REB" in right hand side front fork leg.

2.8
Remove top cap (A), spring support (B) and preload tube (C).

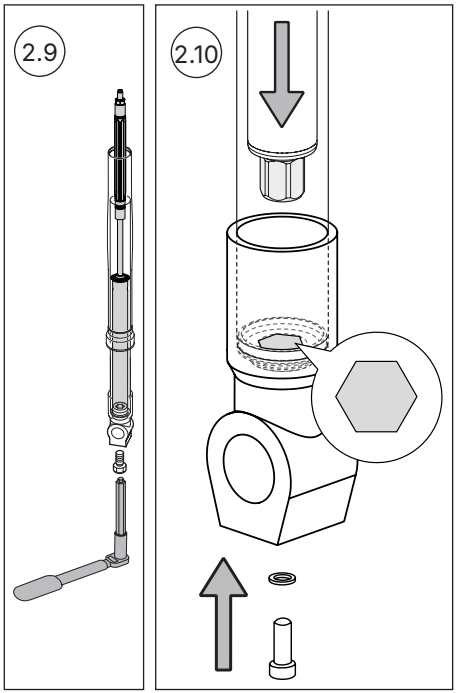


2.9
Insert the cartridge in the front fork leg.

✋ Caution!

Make sure that the adaptor connects correctly to fork bottom.

2.10
Install bottom screw according to instructions in the vehicle service manual.



2.11
Pour approximately 0.5 litre Öhlins suspension fluid in front fork leg.

⚠ Warning!

Fluid level must be approximately 50 mm above top of cylinder tube assembly.

MOUNTING INSTRUCTIONS

2.12
Use a hex key to open compression and rebound bleed adjusters fully. Install top cap directly to shaft extension (no main spring or preload tube). Pull up outer tube and tighten it to the top cap with your hand.
[Hex key 3 mm]

2.13
Pull outer tube up and down 10-15 times to pump out all air from the cartridge.

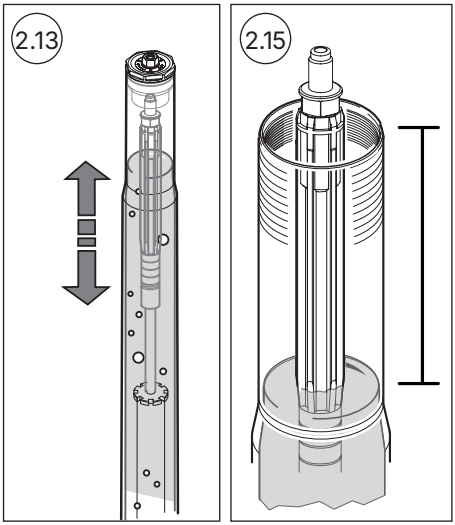
2.14
Remove top cap from front fork leg.

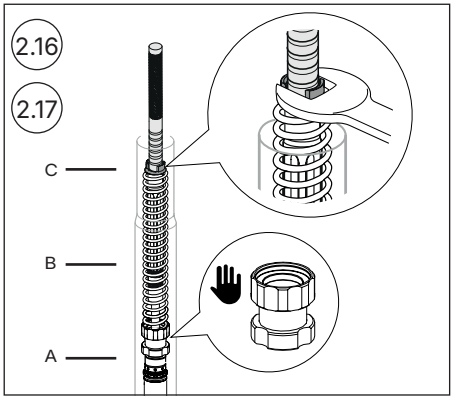
2.15
Make sure that shaft assembly and outer tube are in their bottom positions.
Set suspension fluid level according to chapter “Setup Data”.

2.16
Install shaft extension tool on top of shaft extension.
Install preload tube (A), main spring (B) and spring support (C) over shaft extension tool.
[**01765-03 shaft extension tool**]

2.17
Pull up shaft assembly and grab spring support with a wrench tool.
[**Wrench 19 mm**]

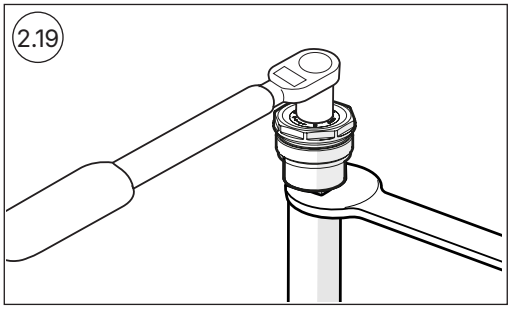
2.18
Install o-ring on top cap. Apply grease on o-ring and thread.
[**00438-26 o-ring**]
[**00146-01 grease**]





MOUNTING INSTRUCTIONS

2.19
Make sure that compression and rebound adjusters are fully open before installing top cap.
Use a hex key to open compression and rebound adjusters.
Remove pull-up tool and install top cap to the shaft extension. Tighten to 20 Nm.
[**Hex key 3 mm**]
[**Socket 14 mm**]



2.20
Remove wrench from spring support.

2.21
Pull up outer tube. Make sure front fork leg is in a fully extended position. Tighten top cap to outer tube. Tighten to 10 Nm.
[**Wrench 50 mm**]

2.22
Set main spring preload, compression and rebound adjusters according to chapter “Setup Data”.
Use a hex key for compression and rebound adjusters.
Use a socket for the preload adjuster.
[**Hex key 3 mm**]
[**Socket 14 mm**]

MOUNTING INSTRUCTIONS

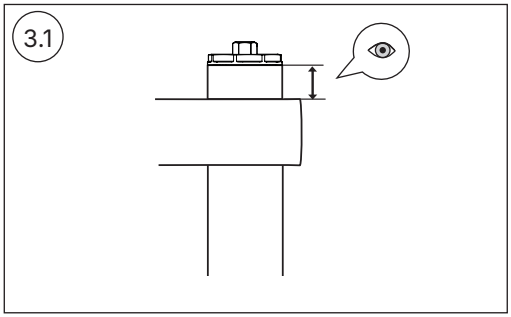
3 Install the front fork in the vehicle

Note!

The following procedure applies to both front fork legs.

3.1

Install the front fork legs into the triple clamps at the position recommended in setup data (Front fork leg position). See the vehicle service manual for correct procedure and tightening torque.



Note!

Measure the front fork leg position from the upper triple clamp to the top of the outer tube.

3.2

Remaining installation, instructions according to vehicle service manual.

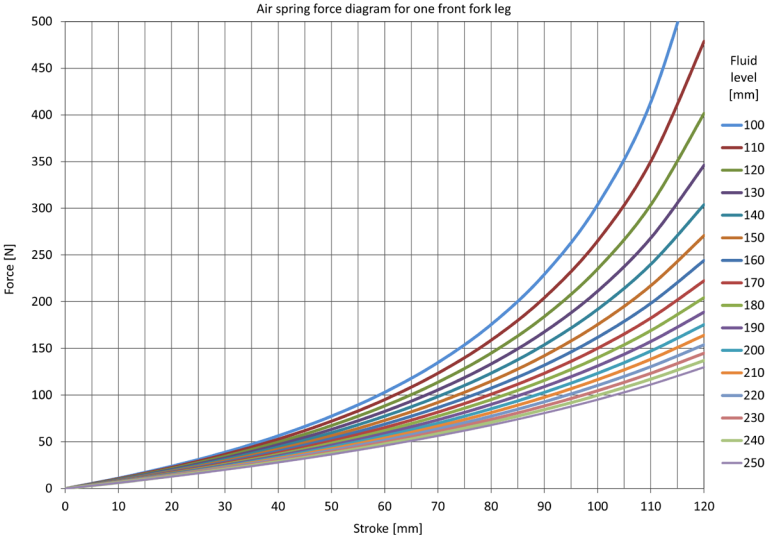
SETUP DATA

Compression adjustment	12	clicks
Rebound adjustment	10	clicks
Suspension fluid level	140	mm
Suspension fluid part number	01309-xx	
Front fork leg position	Standard position	

MAIN SPRING GUIDE

Make sure you choose the correct main spring for your rider weight, driving style and preferences. Below you find a general recommendation of main spring rate for your weight. Contact an authorized Öhlins service center for advice.

Rider weight [kg]	60	70	80	90	100	110	120	130
Spring rate [N/mm]	9.5	9.5	9.5	10	10.5	10.5	11	11
Preload [turns]	9	10	12	11	10	12	11	12
Spring part number	08790-95	08790-95	08790-95	08790-10	08790-05	08790-05	08790-11	08790-11



Öhlins products are subject to continuous improvement and development, therefore, although these instructions include the most up-to-date information available at the time of printing, minor updates may occur.

To find the latest information contact an Öhlins distributor. Please contact Öhlins if you have any questions regarding the contents in this document.

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