

Note!

Please note that this image is a general representation of the product and may differ slightly from your product.

Note!

Please note that during storage and transportation, especially at high ambient temperature, some of the oil and grease used for assembling may leak and stain the packaging. This is in no way detrimental to the product, wipe off the excessive oil/grease with a cloth.

Note!

Before installing this product, check the contents of the kit. If anything is missing, please check an Öhlins dealer.

Kit Contents

Description	Part No	Pcs
Shock absorber	RE 539	2
Washer 14.1/24/1	03118-13	4
Tool preload adjuster	03199-03	1
Sticker set "ÖHLINS"	10207-01	1
Owners manual road & track	07241-02	1

⚠ Warning!

Before installing this product, read the Öhlins Owner's Manual. The shock absorber is an important part of your vehicle and will affect the stability.

Shock Absorber for Royal Enfield Bear 650

RE 539

Mounting Instructions

ÖHLINS

MONTAGEANLEITUNG

⚠ Warning!

It is advisable to have an Öhlins dealer install the shock absorber.

⚠ Warning!

If working on a raised vehicle, ensure it is securely supported so that it will not tip over.

Note!

Before mounting this product clean the vehicle thoroughly.

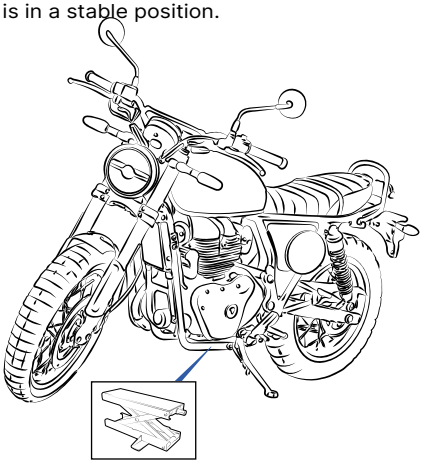
Note!

When working on this product, always see the Vehicle Service Manual for vehicle specific procedures and important data.

1

Put the motorcycle on the work stand so that the rear wheel barely touches the ground.

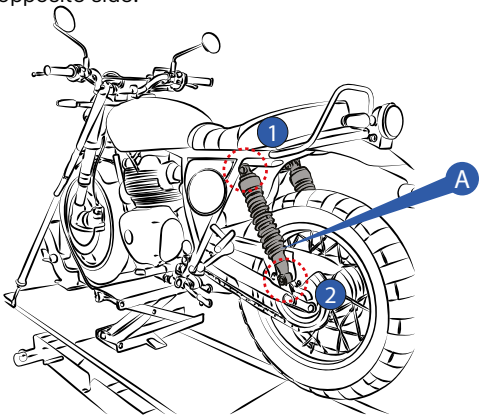
Make sure the motorcycle is in a stable position.



2

Remove the standard shock absorber Ⓐ by loosening the upper and lower mounting bolts ①②.

Repeat the operation on the opposite side.



MONTAGEANLEITUNG

3
Install the Öhlins shock absorber with washers according to diagram P1.
Tighten the upper and lower mounting nuts ①② at a torque value as specified in the vehicle service manual. Reverse all the procedures as necessary.

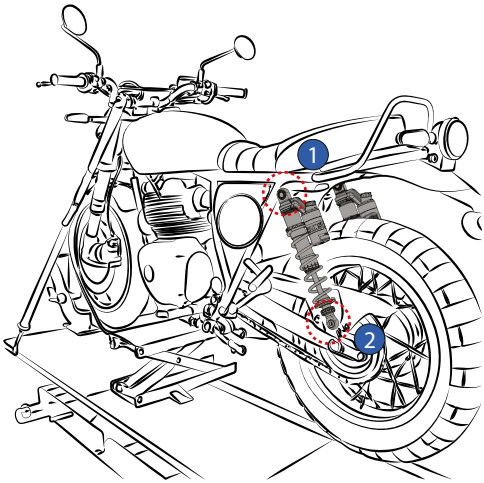
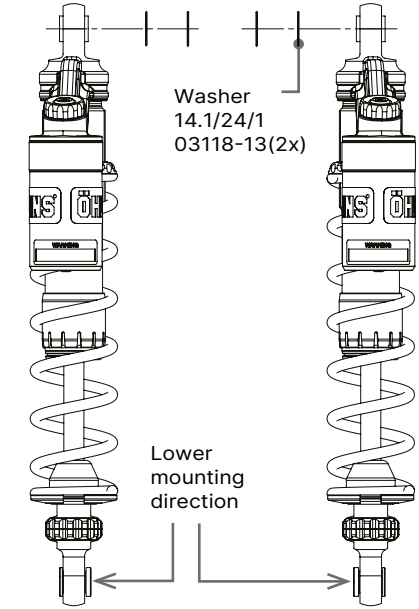


Diagram P1



Note!

Lower the vehicle so that the suspension is slightly compressed before tightening the screws.

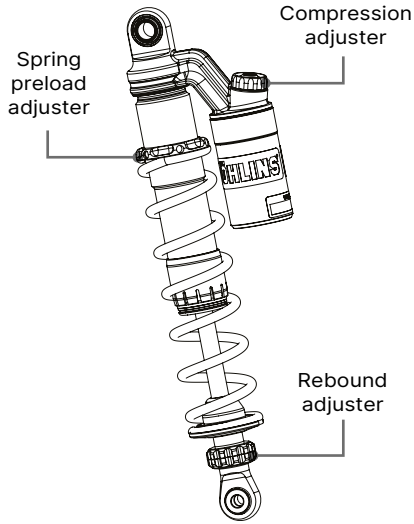
Caution!

Ensure that all screws are tightened to the correct torque and that nothing fouls or restricts movement of the shock absorber when the suspension is fully compressed or extended.

ADJUSTMENTS

⚠ Warning!

Before riding, always make sure that the basic settings made by Öhlins are according to recommended
Set-up Data. Read about adjustments and setting up in the Öhlins Owner's Manual before you make any adjustments. Contact an Öhlins dealer if you have any questions about setting up.



SET-UP DATA

Recommended set-up

Spring Preload	7 mm
Compression adjuster	18 Clicks
Rebound adjuster	18 Clicks

Shock absorber data

Length	384.5 mm
Stroke	94.5 mm

Spring data	**Installed spring**
Part No	60480-03
Free spring length ...	230 mm
Spring rate	Prog. 18-27 N/mm
Preload adj.range ...	[0-24] mm

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.

Part no. MI_RE 539_EN_0
Issued 2025-11-03

© Öhlins Asia Co. Ltd. All rights reserved. Any reprinting or unauthorized use without the written permission of Öhlins Racing AB is prohibited.

Öhlins Asia Co. Ltd
700/937 Moo5, Tambol Nongkhaga,
Amphur Phantong, Chonburi
Province
20160 Thailand

ÖHLINS