

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.

Kit Contents

Description	Part No	Pcs
Front fork	FGR 256	1
Spring, front fork	04744-05	2
Spring, front fork	04744-95	2
Screw	01046-38	4
Fender bracket	21665-24	2
Sticker set "ÖHLINS"		1
Owner's Manual	07280-27	1

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. This product is an important part of the vehicle and the vehicle stability.

Front Fork Superbike

FGR 256

Mounting Instructions/Spare Parts List

SAFETY PRECAUTIONS

Warning!

The shock absorber/front fork/steering damper is an important part of the vehicle and will affect the stability.

Warning!

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

Warning!

Some of Öhlins products contain pressurized nitrogen gas (N₂). Do not open, service or modify pressurized products without proper education (approved Öhlins dealer/distributor) and proper tools.

Note!

Read and ensure you understand the information in this manual and other technical documents provided by Öhlins, before you use the product.

Note!

Öhlins Racing AB can not be held responsible for any damage to the shock absorber/front fork/steering damper, vehicle, other property or injury to persons, if the instructions for mounting, usage and maintenance are not obeyed.

Warning!

If the suspension makes an abnormal noise, or the function is irregular, or if you notice any leakage from the product, stop the vehicle immediately and return the product to an Öhlins Service Centre.

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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 shock absorber, or to bystanders.

Caution!

The Caution Symbol means: Special precautions must be taken to avoid damage to the shock absorber.

Note!

The Note Symbol indicates information that is important regarding procedures.

Warning!

The product warranty shall only apply if the product has been operated and maintained in accordance with recommendations in this manual. If you have any questions regarding usage, service, inspection and/or maintenance contact Öhlins.

Note!

When working with the Öhlins product, read the Vehicle Service Manual.

Warning!

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

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FGR 256 TECHNICAL INFORMATION

FGR 256

Front fork length/stroke	745/125 mm
Free spring length	260 mm

Adjustment Range

Compression	~30 clicks
Rebound	~30 clicks
Spring preload	0-18 mm (0-18 turns)

The adjustment range from closed valve (clockwise) to maximum open valve (counter clockwise): approx. 30 clicks

Spring rate

10 N/mm (mark -10) STD	04744-10
------------------------	----------

Supplied optional springs

9.5 N/mm (mark -95)	04744-95
10.5 N/mm (mark -05)	04744-05

Oil capacity

See specification card. Use Öhlins Front Fork fluid 01309 only.

Torque

Outer tube lower clamp Ø58 mm 0/-0.05
Outer tube upper clamp Ø53 mm 0/-0.05
Lower triple clamp bolt 8 Nm (1-2-3 / 2-1-3)
Upper triple clamp bolt 22 Nm, if 2 screws (1-2-1)
Wheel axle Clamp bolt 19 Nm (1-2-1)

👁 **Note!**

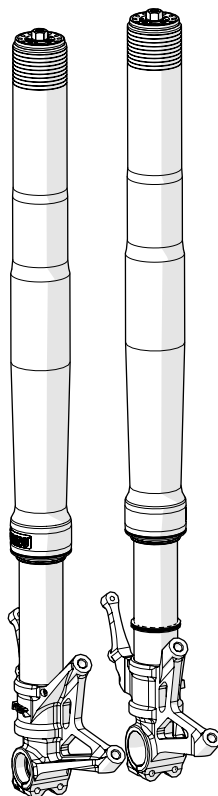
*If your vehicle also is equipped with an Öhlins Steering Damper Outer tube clamp;
Tighten to: 12-15Nm*

Service intervals

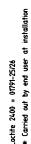
This product is designed for racing use only. Service and maintenance is recommended every 20 hours.

Disposal

Discarded products should be handed over to an authorized Öhlins Service Centre for proper disposal.



FGR 256



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!

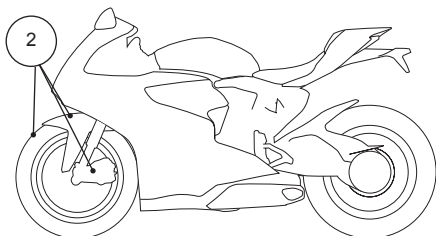
Before you install this product clean the vehicle.

1

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

2

Remove the front fender, brake caliper, ABS-sensor (if any), and the front wheel.



3

Loosen the upper and lower triple clamps by loosening the screws.

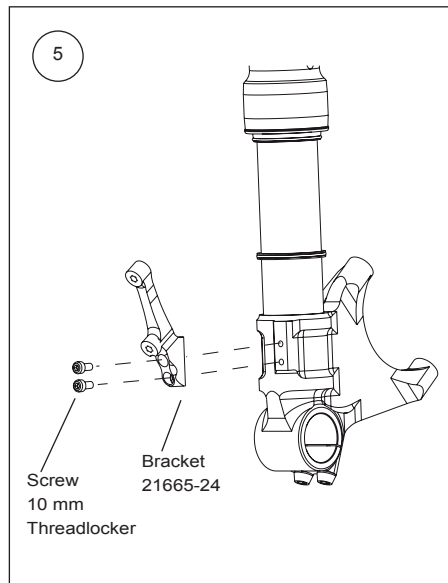
4

Remove the fork legs from the triple clamps.

5

Install the supplied fender brackets to the fork legs according to the figure.

Apply threadlocker (01791-03) or similar on the screws and tighten to 4 Nm.



MOUNTING INSTRUCTIONS

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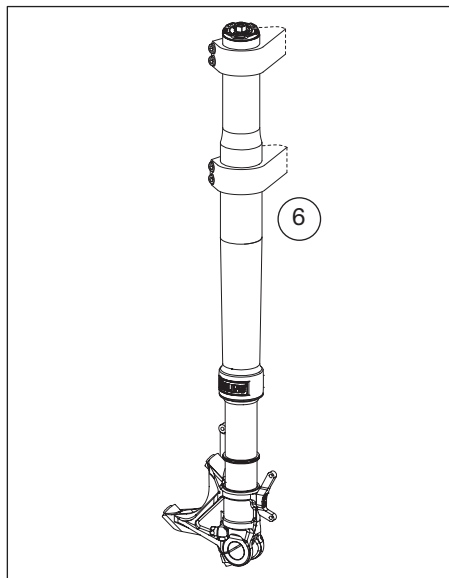
Install the fork legs into the triple clamps to the recommended fork leg position in the setup data.

Tighten the triple clamps:

Upper triple clamp 20 Nm

Lower triple clamp 10 Nm

Turn the handle bars fully from side to side to make sure that nothing restricts the movement, and that the throttle cable and wire harness run with soft bends.



7

Vehicle equipped with ABS; Install the ABS-sensor.

8

Install the front fender, front wheel, and the brake calipers.

Do not tighten yet.

9

Put the vehicle on the ground, apply the front brake and compress the front fork distinctly 3-4 times. This will put the legs in an exact parallel position.

10

Tighten the front wheel, brake calipers, and the front fender.

See the vehicle service manual for correct tightening torques.

11

Make sure that nothing restricts the fork movement when fully compressed.

Note!

In storage or transport the oil in the front fork can be displaced and therefore temporarily loses some of its damping performance.

12

Close the rebound and compression adjusters.

13

Compress the front fork as much as possible several times to bleed out the air. Make sure that there is damping on the full stroke.

14

See the setup data to see the recommended setup for the rebound and compression adjusters.

15

Read more in the Öhlins Owner's manual - Chapter Setting up your front fork, Extended stroke.

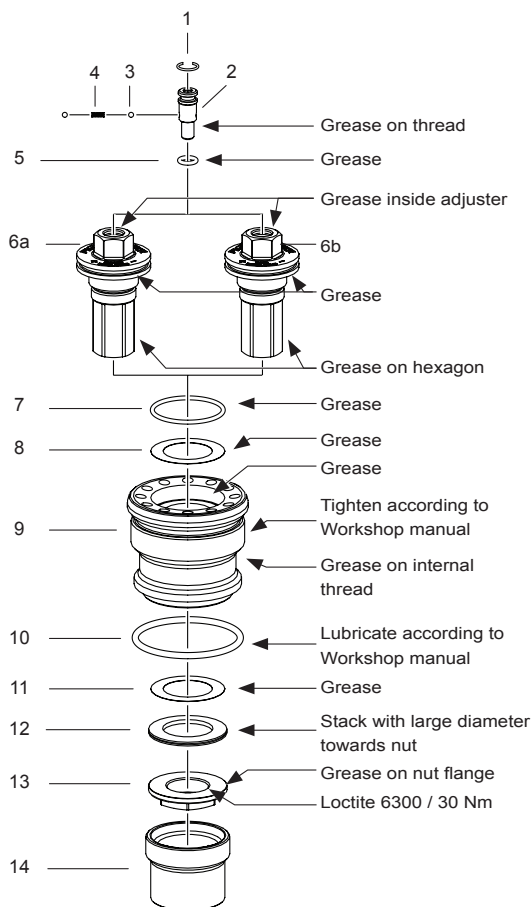
Note!

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

Caution!

Make sure that you tighten all screws to the correct torque and that nothing fouls or restricts movement of the shock absorber/front fork/steering damper when the suspension is fully compressed or extended.

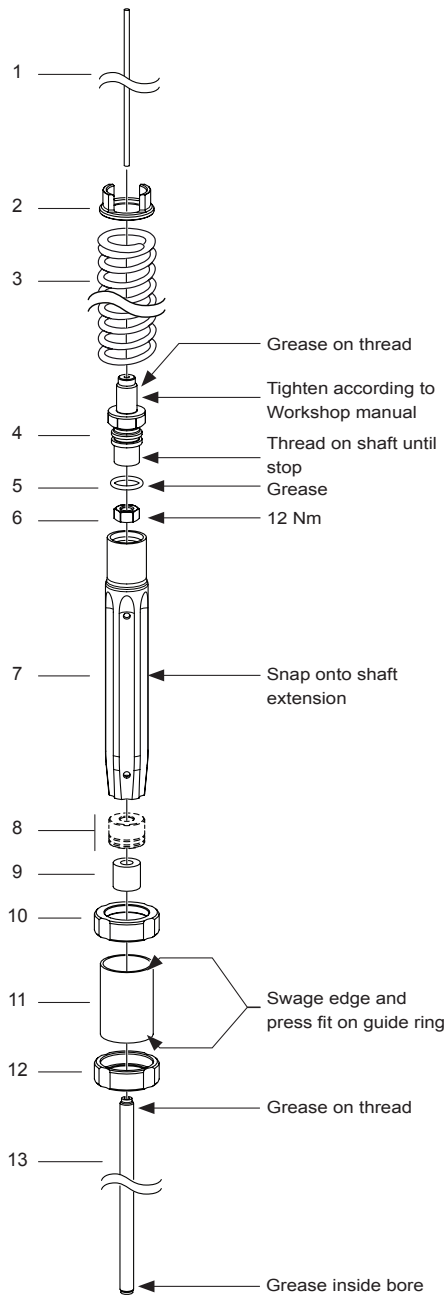
Figure 1 - Top cap



Pos	Part No	Pcs	Description	Notes
1-1	01473-01	2	Circlip	
1-2	21819-01	2	Adjustment screw	
1-3	00884-04	4	Ball	
1-4	01474-01	2	Spring	
1-5	00577-01	2	O-ring	
1-6a	21928-03	1	Adjuster	Compression
1-6b	21928-04	1	Adjuster	Rebound
1-7	00338-72	2	O-ring	
1-8	03309-01	2	Shim	
1-9	21932-16	2	Adjustment housing	
1-10	00338-02	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	

The number of components is intended for one right hand side fork leg and one left hand side fork leg.

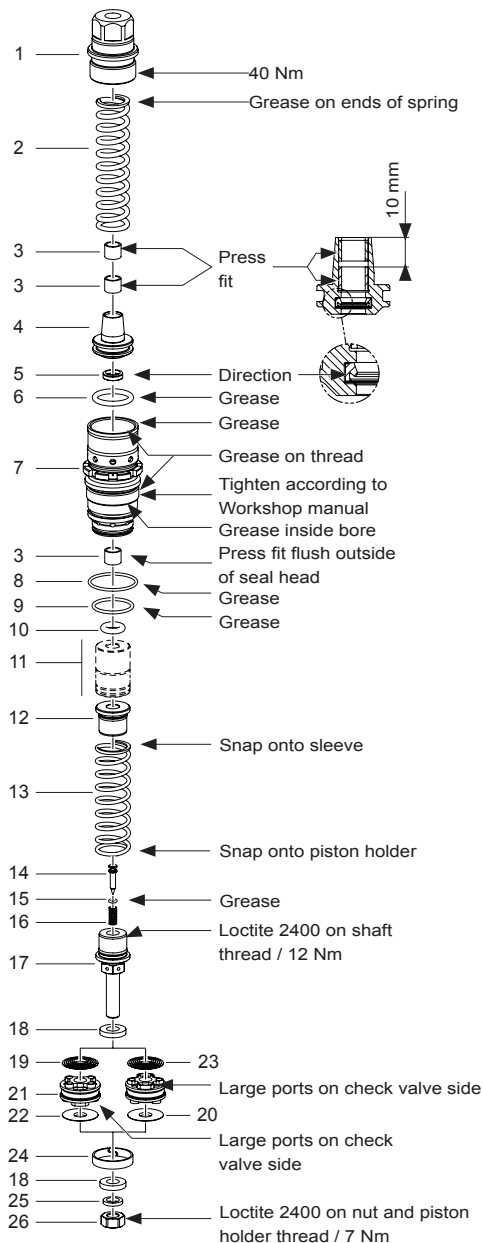
Figure 2 - Shaft assembly



Pos	Part No	Pcs	Description	Notes
2-1	15412-22	2	Adjustment rod	
2-2	03316-02	2	Spring support	
2-3	04744-95	2	Main spring	9.5 N/mm
2-3	04744-10	2	Main spring	10 N/mm *
2-3	04744-05	2	Main spring	10.5 N/mm
2-4	01901-09	2	Shaft extension	
2-5	00338-76	2	O-ring	
2-6	00437-09	2	Nut	
2-7	21925-02	2	Guide sleeve	
2-8	01582-23	4	Spacer 10 mm	
	01582-22	6	Spacer 3 mm	
2-9	01580-04	2	Bump rubber	
2-10	01438-04	2	Guide ring	
2-11	01460-51	2	Preload tube 73 mm	Standard stroke 125 mm
2-12	01438-04	2	Guide ring	
2-13	21812-20	2	Shaft	

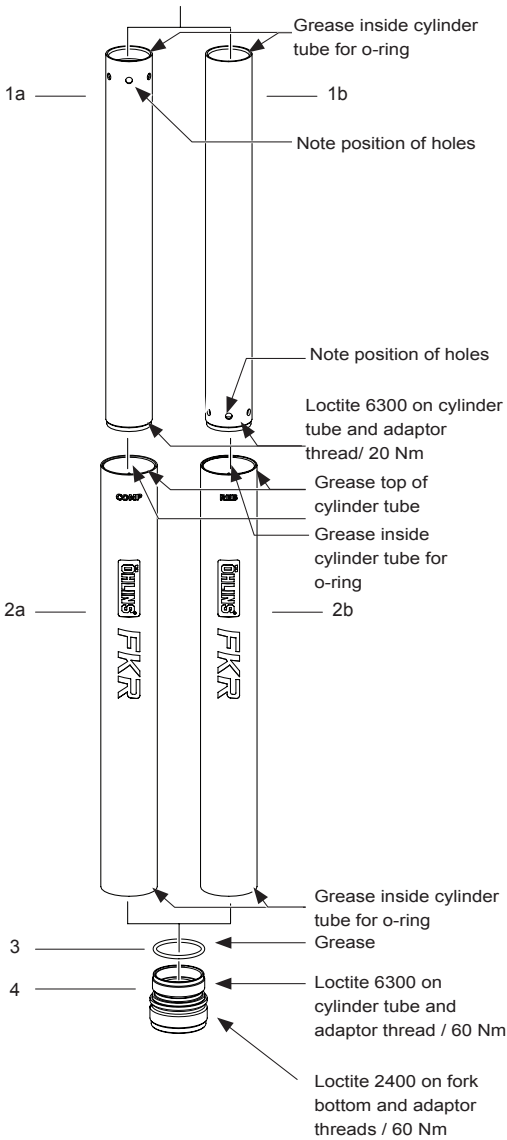
* Installed at delivery

Figure 3 - Seal head and piston assembly



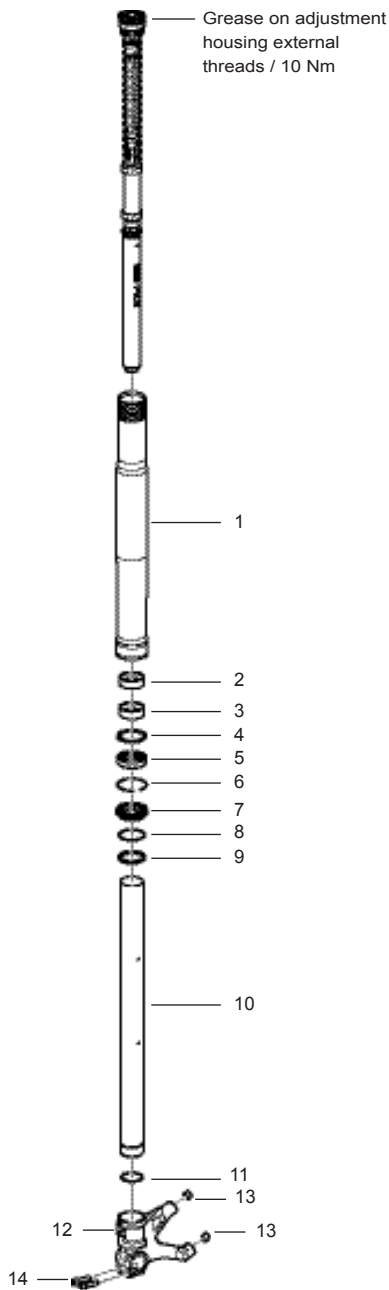
Pos	Part No	Pcs	Description	Notes
3-1	21922-01	2	Cap seal head	
3-2	21927-01	2	Spring	
3-3	01056-09	6	Bushing	
3-4	21921-01	2	Piston dividing	
3-5	15428-01	2	Seal	
3-6	00338-25	2	O-ring	
3-7	21920-01	2	Seal head	
3-8	00338-72	2	O-ring	
3-9	00338-27	2	O-ring	
3-10	00638-81	2	O-ring	
3-11	01582-23	2	Spacer 10 mm	Standard stroke 125 mm Spacers total 30 mm
	01582-24	2	Spacer 15 mm	
	01582-21	2	Spacer 2 mm	
	01582-22	2	Spacer 3 mm	
3-12	01653-09	2	Sleeve	
3-13	21733-01	2	Spring	
3-14	21813-15	2	Needle	
3-15	00338-56	2	O-ring	
3-16	04727-09	2	Spring	
3-17	01654-15	2	Piston holder	
3-18	21926-01	4	Washer	
3-19	See spec. card	1	Shim stack	Compression
3-20	See spec. card	1	Shim stack	Rebound
3-21	21923-01	2	Piston	
3-22	See spec. card	1	Check valve shim stack	Compression
3-23	See spec. card	1	Check valve shim stack	Rebound
3-24	01447-02	2	Piston ring	
3-25	01674-01	2	Washer	
3-26	01657-01	2	Nut	

Figure 4 - Cylinder tube assembly



Pos	Part No	Pcs	Description	Notes
4-1a	21929-01	1	Cylinder tube	Compression
4-1b	21929-02	1	Cylinder tube	Rebound
4-2a	21930-01	1	Cylinder tube	Compression
4-2b	21930-02	1	Cylinder tube	Rebound
4-3	00576-07	2	O-ring	
4-4	21924-06	2	Adaptor	

Figure 5 - External components



Pos	Part No	Pcs	Description	Notes
5-1	01900-23	2	Outer tube	
5-2	01683-04	2	Bushing, upper	
5-3	01684-04	2	Bushing, Lower	
5-4	04758-01	2	Washer	
5-5	04720-02	2	Seal	
5-6	04759-01	2	Circlip	
5-7	04721-03	2	Scraper	
5-8	00338-54	1	O-ring	Right
5-9	01565-04	1	Stroke Indicator	Right
5-10	21634-12	2	Fork leg inner	
5-11	00338-63	2	O-ring	
5-12	21664-61	1	Fork bottom right	
5-12	21664-62	1	Fork bottom left	
5-14	01240-09	4	Screw	

FGR 256 SETUP DATA

SETUP DATA

Recommended setup

Compression adjustment	14	clicks
Rebound adjustment	14	clicks
Suspension fluid level	160	mm
Minimum suspension fluid level	230	mm
Suspension fluid part number	01309-xx	
Front fork leg position	Standard	

MAIN SPRING GUIDE

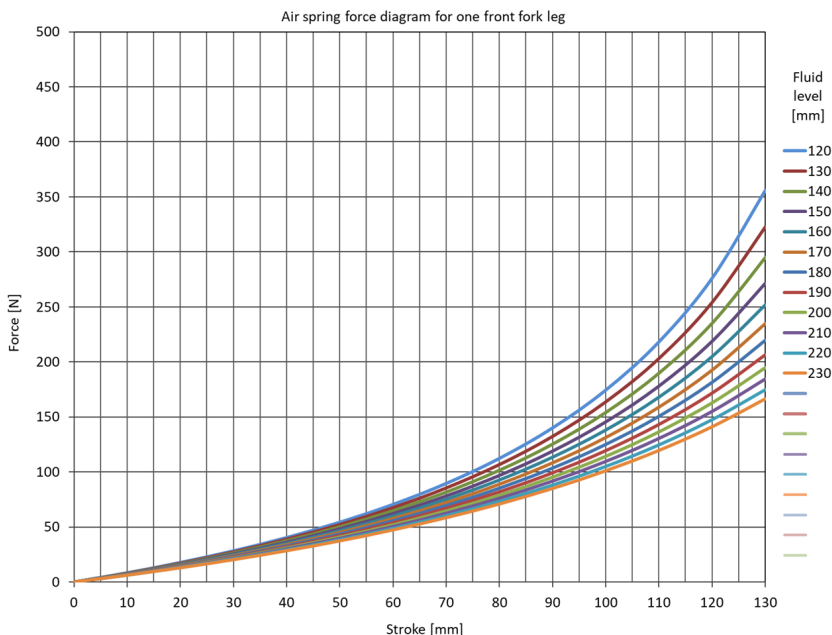
Make sure you choose the correct main spring for your rider weight, driving style and preferences. Below you find a general recommendation of main spring rate for your weight. Contact an authorized Öhlins service center for advice.

FGR 256 Ducati Panigale V4

Rider weight [kg]	50	60	70	80	90	100	110
Spring rate [N/mm]	9	9,5	9,5	10	10	10,5	10,5
Preload [mm]	4	4	5	5	7	6	5
Part number (single)	04744-90	04744-95	04744-95	04744-10	04744-10	04744-05	04744-05
Part number (pair)	08790-90	08790-95	08790-95	08790-10	08790-10	08790-05	08790-05

👁 Note!

Only 08790-xx main springs are packed in pairs.



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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