

OWNER'S MANUAL

XACT PRO 6500

Art. no. 53000267en



Congratulations on your decision to purchase a WP chassis component. You are now the owner of a state-of-the-art sports chassis that you will continue to enjoy for a long time if you maintain it properly.

We wish you good and safe riding at all times!

The Owner's Manual contained the latest information for this model series at the time of going to print. Slight deviations resulting from continuing development and design can, however, not be completely excluded.

All specifications are non-binding. WP Suspension GmbH specifically reserves the right to modify or delete technical specifications, prices, colors, forms, materials, services, designs, equipment, etc., without prior notice and without providing reasons, to adapt these to local conditions, as well as to stop the production of a particular model without prior notice. WP accepts no liability for delivery options, deviations from figures and descriptions, misprints, and other errors. The models portrayed partly contain special equipment that does not belong to the regular scope of supply.

© 2021 WP Suspension GmbH, Mattighofen Austria

All rights reserved

Reproduction, even in part, as well as copying of all kinds, is permitted only with the express written permission of the copyright owner.

WP Suspension GmbH
Stallhofnerstraße 3
5230 Mattighofen, Austria

This document is valid for the following models:

XACT PRO 6500 (A460C107U002230)



TABLE OF CONTENTS

1	MEANS OF REPRESENTATION.....	3	9	TUNING THE CHASSIS.....	15
1.1	Symbols used	3	9.1	Checking the basic chassis setting with the rider's weight.....	15
1.2	Formats used	3	9.2	Checking the basic setting of the fork.....	15
2	SAFETY ADVICE	4	9.3	Adjusting the compression damping of the fork.....	16
2.1	Use definition – intended use	4	9.4	Adjusting the rebound damping of the fork.....	16
2.2	Misuse.....	4	9.5	Adjusting the spring preload of the fork.....	17
2.3	Safety advice	4	10	TECHNICAL DATA	19
2.4	Degrees of risk and symbols	4	10.1	fork.....	19
2.5	Safe operation.....	4	11	SUBSTANCES.....	20
2.6	Work rules.....	5	12	STANDARDS	21
2.7	Environment.....	5	13	INDEX OF SPECIAL TERMS	22
2.8	Owner's Manual.....	5	14	LIST OF ABBREVIATIONS	23
2.9	Correct installation.....	5		INDEX.....	24
2.10	Chassis tightening torques	5			
3	IMPORTANT NOTES	6			
3.1	Manufacturer warranty, implied warranty	6			
3.2	Fuel, auxiliary substances.....	6			
3.3	Spare parts, accessories	6			
3.4	Service	6			
3.5	Figures	6			
3.6	Customer service.....	6			
4	SERIAL NUMBERS.....	7			
4.1	Cartridge article number	7			
5	PREPARING FOR USE.....	8			
5.1	Advice on preparing for first use.....	8			
6	RIDING INSTRUCTIONS	9			
6.1	Checks and maintenance measures when preparing for use	9			
7	SERVICE SCHEDULE.....	10			
7.1	Additional information.....	10			
7.2	Required work.....	10			
7.3	Recommended work.....	10			
8	SERVICE WORK ON THE CHASSIS	11			
8.1	Raising the motorcycle with a lift stand	11			
8.2	Removing the standard fork legs 	11			
8.3	Installing the WP PRO COMPONENTS fork legs 	11			
8.4	Bleeding the fork legs	13			
8.5	Cleaning the dust boots of the fork legs	13			
8.6	Removing the motorcycle from the lift stand	14			

1.1 Symbols used

The meaning of specific symbols is described below.



Indicates an expected reaction (e.g. of a work step or a function).



Indicates an unexpected reaction (e.g. of a work step or a function).



All work marked with this symbol requires specialist knowledge and technical understanding. In the interest of your own safety, have these jobs performed by a WP Authorized Center! There your WP chassis will be treated with the optimum care and attention by specially trained experts using the necessary special tools.



Indicates a page reference (more information is provided on the specified page).



Indicates information with more details or tips.



Indicates the result of a testing step.



Indicates the end of an activity, including potential rework.

1.2 Formats used

The typographical formats used in this document are explained below.

Proprietary name	Indicates a proprietary name.
Name[®]	Indicates a protected name.
Brand[™]	Indicates a brand available on the open market.
<u>Underlined terms</u>	Refer to technical details or indicate technical terms, which are explained in the glossary.

2 SAFETY ADVICE

2.1 Use definition – intended use

This chassis component is designed and built to withstand the normal stresses and strains of regular racing.



Info

Only use this chassis component in closed-off areas remote from public road traffic.
Only use this chassis component in the vehicle for which the chassis component is approved and/or recommended.

2.2 Misuse

The chassis component must only be used as intended.

Dangers can arise for people, property and the environment through use not as intended.

Any use of the chassis component beyond the intended and defined use constitutes misuse.

Misuse also includes the use of operating and auxiliary fluids which do not meet the required specification for the respective use.

2.3 Safety advice

A number of safety instructions need to be followed to operate the product described safely. Therefore read this instruction and all further instructions included carefully. The safety instructions are highlighted in the text and are referred to at the relevant passages.



Info

Various information and warning labels are attached in prominent locations on the product described. Do not remove any information or warning labels. If they are missing, you or others may not recognize dangers and may therefore be injured.

2.4 Degrees of risk and symbols



Danger

Identifies a danger that will immediately and invariably lead to fatal or serious permanent injury if the appropriate measures are not taken.



Warning

Identifies a danger that is likely to lead to fatal or serious injury if the appropriate measures are not taken.

Note

Identifies a danger that will lead to considerable machine and material damage if the appropriate measures are not taken.

2.5 Safe operation



Danger

Danger of accidents A rider who is not fit to ride poses a danger to him or herself and others.

- Do not operate the vehicle and use chassis components if you are not fit to ride due to alcohol, drugs or medication.
- Do not operate the vehicle and use chassis components if you are physically or mentally impaired.

Only use the chassis component when it is in perfect technical condition, in accordance with its intended use, and in a safe and environmentally compatible manner.

If there are faults, which impair safety, have them immediately remedied in a WP Authorized Center. Adhere to the information and warning labels on the chassis component.

2.6 Work rules

Special tools are necessary for certain tasks. The tools are not a component of the chassis component, but can be ordered using the number in parentheses.

During assembly, use new parts to replace parts which cannot be reused (e.g., seals, seal rings, O-rings).

In the case of certain screws, a thread locker (e.g. **Loctite**®) is required. Observe the manufacturer's instructions.

After disassembly, clean the parts that are to be reused and check them for damage and wear. Change damaged or worn parts.

After completing a repair or service work, check the operating safety of the chassis component.

2.7 Environment

If you use your chassis component responsibly, you can ensure that problems and conflicts do not occur. When disposing of used oil, other operating and auxiliary fluids, and used components, comply with the laws and regulations of the respective country.

2.8 Owner's Manual

It is important that you read this Owner's Manual carefully and completely before making your first trip. The Owner's Manual contains useful information and many tips on how to operate, handle, and service your motorcycle. This is the only way for you to find out how to set up the chassis component ideally and how to protect yourself from injury.

Keep the Owner's Manual in an accessible place to enable you to refer to it as needed.

If you would like to know more about the chassis component or have questions on the material you read, please contact a WP Authorized Center.

The Owner's Manual is an important part of the chassis component and must be handed over to the new owner if the vehicle is sold.

2.9 Correct installation

Correct installation analogously to original components and in accordance with the instructions of the vehicle manufacturer is essential for ensuring maximum safety and functionality.

It is therefore strongly recommended that you have the chassis component installed at a WP Authorized Center.

2.10 Chassis tightening torques

Unless otherwise stated, the tightening torques that apply are those in the vehicle manufacturer's instructions.

3 IMPORTANT NOTES

3.1 Manufacturer warranty, implied warranty

The work prescribed in the service schedule must be carried out in a WP Authorized Center only, since otherwise no warranty claims will be recognized. Damage or secondary damage caused by tampering with and/or conversions on the chassis component are not covered by the manufacturer warranty.

3.2 Fuel, auxiliary substances

Use operating and auxiliary substances (such as fuel and lubricants) as specified in the Owner's Manual.

3.3 Spare parts, accessories

For your safety, only use spare parts and accessory products that are approved and/or recommended by WP and have them installed in a WP Authorized Center. WP accepts no liability for other products and any resulting damage or loss.

Certain spare parts and accessory products are specified in parentheses in the descriptions. Your WP Authorized Center will be pleased to advise you.

3.4 Service

A prerequisite for perfect operation and prevention of premature wear is that the service, care, and tuning work is properly carried out as described in the Owner's Manual. Incorrect adjustment and tuning of the chassis and suspension can lead to damage and breakage of components.

Use of the chassis component under difficult conditions, such as on sand or on wet and muddy surfaces, can lead to considerably more rapid wear. For this reason, it may be necessary to inspect or replace parts before the next scheduled service.

It is imperative that you adhere to the stipulated service intervals. If you observe these exactly, you will ensure a much longer service life for your chassis component.

3.5 Figures

The figures contained in the manual may depict special equipment.

In the interest of clarity, some components may be shown disassembled or may not be shown at all. It is not always necessary to disassemble the component to perform the activity in question. Please follow the instructions in the text.

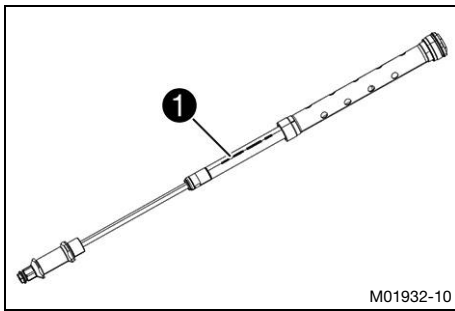
3.6 Customer service

If you have any questions about your chassis component or WP, your WP Authorized Center will be pleased to advise you.

A list of WP Authorized Centers can be found on the WP website.

International WP Suspension website: <http://www.wp-suspension.com>

4.1 Cartridge article number



Cartridge article number ❶ is located on the cartridge.

5.1 Advice on preparing for first use



Warning

Danger of accident Modifications to the suspension setting may seriously alter the handling characteristic.

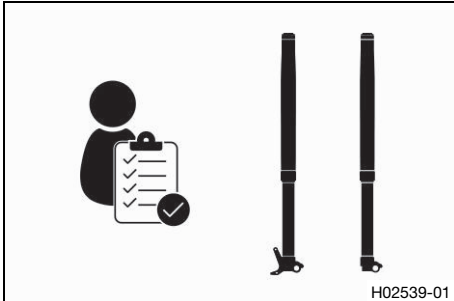
Extreme modifications to the suspension setting may cause a serious deterioration in the handling characteristic and overload components.

- Only make adjustments within the recommended range.
 - Ride slowly to start with after making adjustments to get the feel of the new handling characteristic.
-
- Adjust the compression damping of the fork. (📖 p. 16)
 - Adjust the rebound damping of the fork. (📖 p. 16)
 - Adjust the spring preload of the fork. (📖 p. 17)

6.1 Checks and maintenance measures when preparing for use

i Info

Before every use, check the condition of the chassis component and ensure that it is safe to operate. The chassis must be in perfect technical condition when it is being operated.



- Check chassis component for damage.
- Clean the dust boots of the fork legs. (📖 p. 13)
- Bleed the fork legs. (📖 p. 13)
- Check all screw connections to ensure that they are tight.



7.1 Additional information

Any further work that results from the compulsory work or from the recommended work must be ordered separately and invoiced separately.
Different service intervals may apply in your country, depending on the local operating conditions.

7.2 Required work

Every 40 operating hours	
Service the fork. 	☒

- Periodic interval

7.3 Recommended work

After 10 operating hours	
Service the fork. 	☐

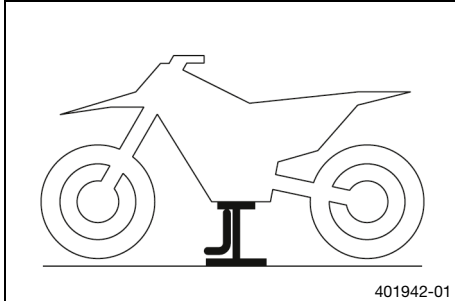
- One-time interval

8.1 Raising the motorcycle with a lift stand

Note

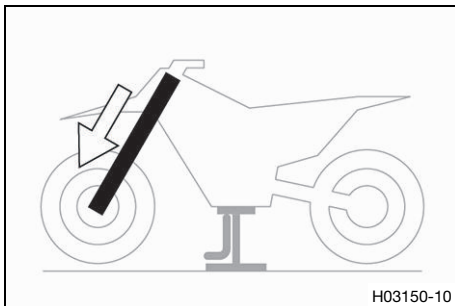
Danger of damage The parked vehicle can roll away or fall over.

- Park the vehicle on a firm and level surface.



- Raise the motorcycle in accordance with the instructions of the vehicle manufacturer.
- ✓ Neither wheel is in contact with the ground.
- Secure the motorcycle against falling over.

8.2 Removing the standard fork legs



- Remove the standard fork legs according to the repair manual.
- Remove the standard cartridge according to the repair manual.



Info

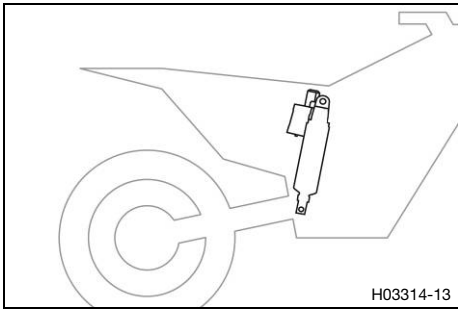
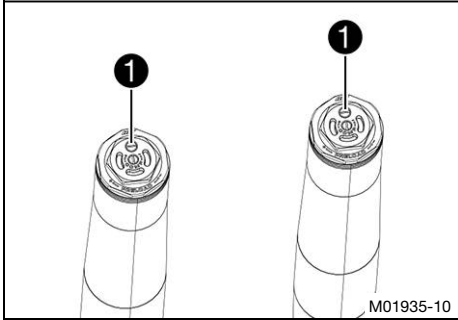
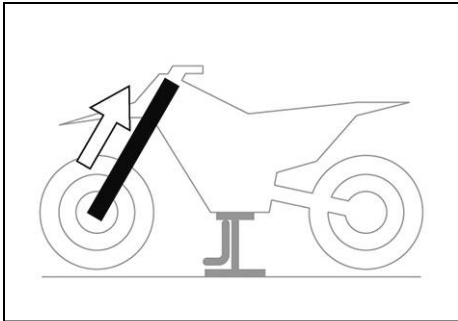
No fork springs are included with the WP PRO COMPONENTS cartridge. Fork springs can be obtained at an authorized WP center.

8.3 Installing the WP PRO COMPONENTS fork legs



Info

If the WP PRO COMPONENTS cartridge is used together with the standard shock absorber, we recommend other click settings and another spring rate for the shock absorber. Contact a WP Authorized Center for any necessary conversions.



- Install the WP PRO COMPONENTS cartridge in accordance with WP Suspension fitting instructions.



Info
No fork springs are included with the WP PRO COMPONENTS cartridge.
Fork springs can be obtained at an authorized WP center.

- Install the fork legs according to the repair manual.
- ✓ Bleeder screws 1 are positioned toward the front.
- Attach the stickers included in the scope of supply (optional).

Condition

Standard shock absorber remains installed.

- Adjust the setting of the standard shock absorber.

Guideline

Condition

350/450 SX-F, FC 350/450, MC 350F/450F

Low-speed compression adjuster	12 clicks
High-speed compression adjuster	1.25 turns
Rebound damping adjuster	15 clicks
Spring rate	45 N/mm (257 lb/in)

Condition

125 SX, 250 SX-F, TC 125, FC 250, MC 125, MC 250F

Low-speed compression adjuster	12 clicks
High-speed compression adjuster	1.25 turns
Rebound damping adjuster	15 clicks
Spring rate	42 N/mm (240 lb/in)

Condition

250 SX, TC 250, MC 250

Low-speed compression adjuster	10 clicks
High-speed compression adjuster	1 turn
Rebound damping adjuster	15 clicks
Spring rate	45 N/mm (257 lb/in)



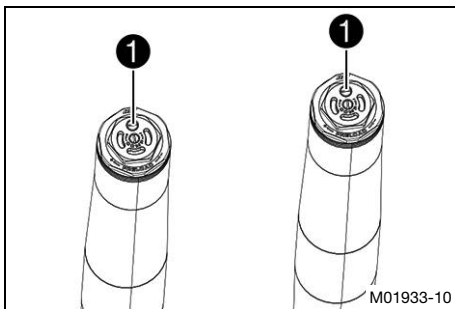
8.4 Bleeding the fork legs

Preparatory work

- Raise the motorcycle with a lift stand. (📖 p. 11)

Main work

- Release bleeder screws ❶.
- ✓ Any excess pressure escapes from the interior of the fork.
- Tighten the bleeder screws.



Finishing work

- Remove the motorcycle from the lift stand. (📖 p. 14)



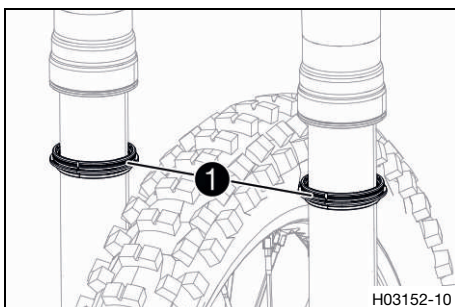
8.5 Cleaning the dust boots of the fork legs

Preparatory work

- Raise the motorcycle with a lift stand. (📖 p. 11)
- Remove the fork protector.

Main work

- Push dust boots ❶ of both fork legs downward.



Info

The dust boots remove dust and coarse dirt particles from the inside fork tubes. Over time, dirt can accumulate behind the dust boots. If this dirt is not removed, the oil seals behind can start to leak.



Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.

- Clean the dust boots and inner fork tubes of both fork legs.
- Press the dust boots back into their installation position.
- Remove excess oil.

8 SERVICE WORK ON THE CHASSIS

Finishing work

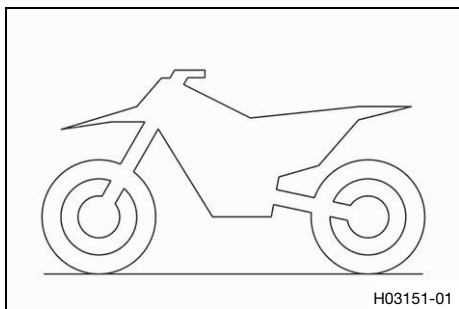
- Install the fork protector.
- Remove the motorcycle from the lift stand. (📖 p. 14)

8.6 Removing the motorcycle from the lift stand

Note

Danger of damage The parked vehicle can roll away or fall over.

- Park the vehicle on a firm and level surface.

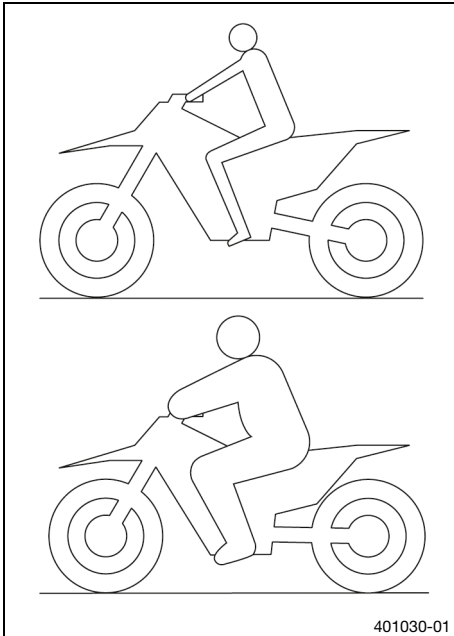


- Remove the motorcycle from the lift stand as per the instructions of the vehicle manufacturer.
- Remove the lift stand.

9.1 Checking the basic chassis setting with the rider's weight

i Info

If the WP PRO COMPONENTS cartridge is used together with the standard shock absorber, we recommend other click settings and another spring rate for the shock absorber. Contact a WP Authorized Center for any necessary conversions.



- For optimal motorcycle riding characteristics and to avoid damage to forks, shock absorbers, link fork and frame, the basic settings of the suspension components must match the rider's weight.
- This chassis component is factory set to a standard rider's weight.

Guideline

Standard rider weight	75 ... 85 kg (165 ... 187 lb.)
-----------------------	--------------------------------

- If the rider's weight is above or below this range, the basic setting of the suspension components must be adjusted accordingly.
- Minor differences in the rider's weight can be compensated for by modifying the spring preload.
- In case of larger differences, appropriate springs must be fitted.

i Info

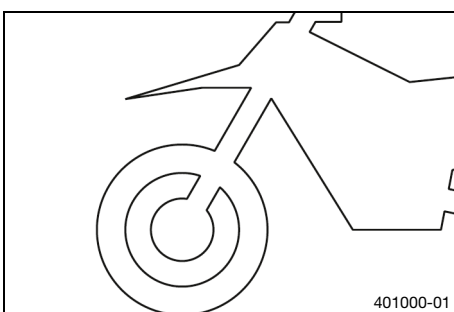
This product is suitable for several vehicles. Contact a WP Authorized Center for any necessary conversions.



9.2 Checking the basic setting of the fork

i Info

For various reasons, no exact riding sag can be determined for the fork.

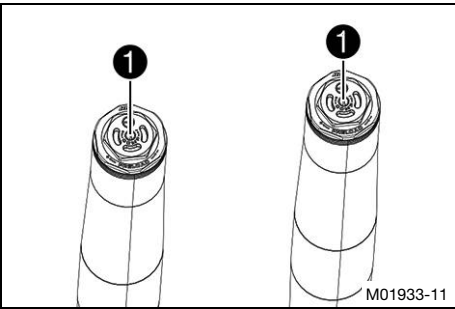


- As with the shock absorber, smaller differences in the rider's weight can be compensated by the spring preload.
- However, if the fork frequently bottoms out (hard end stop on compression), harder springs must be fitted to avoid damage to the fork and frame.
- If the fork feels unusually hard after extended periods of operation, the fork legs need to be bled.



9.3 Adjusting the compression damping of the fork

i Info
The hydraulic compression damping determines the fork suspension behavior.
If the WP PRO COMPONENTS cartridge is used together with the standard shock absorber, we recommend other click settings and another spring rate for the shock absorber.
Contact a WP Authorized Center for any necessary conversions.



- Turn adjusting screws **1** clockwise up to the last perceptible click.

i Info
The adjusting screws are located at the top end of the fork legs.
Make the same adjustment on both fork legs.
An adjustment tool is included in the scope of supply.

- Turn counterclockwise by the number of clicks corresponding to the fork type.

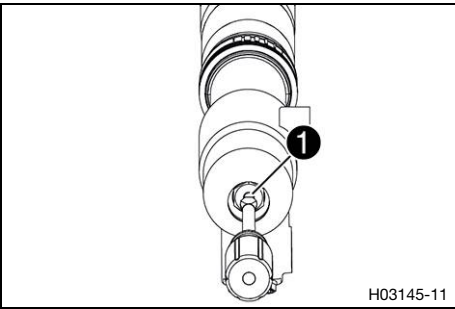
Guideline

Compression damping	
Comfort	17 clicks
Standard	12 clicks
Sport	8 clicks

i Info
Turn clockwise to increase damping; turn counterclockwise to reduce damping during compression.
This product is suitable for several vehicles.
Contact a WP Authorized Center for any necessary conversions.

9.4 Adjusting the rebound damping of the fork

i Info
The hydraulic rebound damping determines the fork suspension behavior.
If the WP PRO COMPONENTS cartridge is used together with the standard shock absorber, we recommend other click settings and another spring rate for the shock absorber.
Contact a WP Authorized Center for any necessary conversions.



- Turn adjusting screws **1** clockwise up to the last perceptible click.

i Info
The adjusting screws are located at the bottom end of the fork legs.
Make the same adjustment on both fork legs.

- Turn counterclockwise by the number of clicks corresponding to the fork type.

Guideline

Rebound damping	
Comfort	17 clicks
Standard	12 clicks
Sport	8 clicks



Info

Turn clockwise to increase the damping; turn counterclockwise to reduce damping when the shock absorber rebounds.
This product is suitable for several vehicles.
Contact a WP Authorized Center for any necessary conversions.



9.5 Adjusting the spring preload of the fork



Info

If the WP PRO COMPONENTS cartridge is used together with the standard shock absorber, we recommend other click settings and another spring rate for the shock absorber.
Contact a WP Authorized Center for any necessary conversions.

Preparatory work

- Raise the motorcycle with a lift stand. (📖 p. 11)

Main work

- Turn preload adjuster counterclockwise to the last perceptible click.

Ring wrench (T14028)



Info

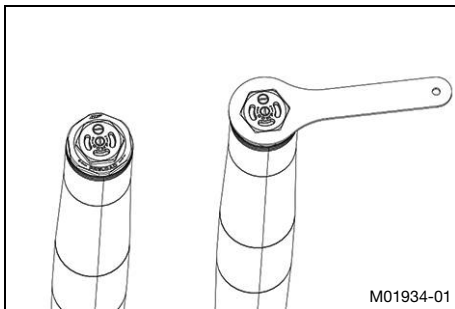
The adjusting spanner is included.
Make the same adjustment on both fork legs.

- Turn clockwise by the number of turns corresponding to the fork type.

Guideline

Spring preload – preload adjuster	
2-stroke Comfort	2 turns
2-stroke Standard	4 turns
2-stroke Sport	6 turns
4-stroke Comfort	2 turns
4-stroke Standard	2 turns
4-stroke Sport	4 turns

- ✓ The preload adjusters snap into place noticeably.





Info

One turn is equivalent to two clicks.

Adjust the spring preload only to the perceptible clicks, as the preload will not engage between clicks.

Turn clockwise to increase the spring preload; turn counterclockwise to reduce the spring preload.

Adjusting the spring preload has no influence on the absorption setting of the rebound damping.

Basically, however, you should set the rebound damping higher with a higher spring preload.

Finishing work

- Remove the motorcycle from the lift stand. (📖 p. 14)



10.1 fork

Fork article number	A460C107U002230	
Fork	XACT PRO 6500	
Compression damping		
Comfort	17 clicks	
Standard	12 clicks	
Sport	8 clicks	
Rebound damping		
Comfort	17 clicks	
Standard	12 clicks	
Sport	8 clicks	
Spring preload – preload adjuster		
2-stroke Comfort	2 turns	
2-stroke Standard	4 turns	
2-stroke Sport	6 turns	
4-stroke Comfort	2 turns	
4-stroke Standard	2 turns	
4-stroke Sport	4 turns	
Spring length with preload spacer(s)	488 mm (19.21 in)	
Fork length		
All KTM and GASGAS models	950 mm (37.4 in)	
All Husqvarna Motorcycle models	940 mm (37.01 in)	
Oil capacity, external mechanism	400 ml (13.52 fl. oz.)	Fork oil (SAE 4) (48601166S1) (📖 p. 20)
Oil capacity, cartridge	165 ml (5.58 fl. oz.)	Fork oil (SAE 4) (48601166S1) (📖 p. 20)

Fork oil (SAE 4) (48601166S1)

Standard/classification

- SAE (📖 p. 21) (SAE 4)

Guideline

- Use only oils that comply with the specified standards (see specifications on the container) and that exhibit the corresponding properties.

SAE

The SAE viscosity classes were defined by the Society of Automotive Engineers and are used for classifying oils according to their viscosity. The viscosity describes only one property of oil and says nothing about quality.

13 INDEX OF SPECIAL TERMS

PA	Preload adjuster	Device on the suspension components that enables the adjustment of the spring preload
----	------------------	---

Art. no.	Article number
ca.	circa
cf.	compare
e.g.	for example
etc.	et cetera
i.a.	inter alia
no.	number
poss.	possibly

A	
Accessories	6
Auxiliary substances	6
B	
Basic chassis setting	
rider's weight, checking with	15
C	
Cartridge	
article number	7
Correct installation	5
Customer service	6
E	
Environment	5
F	
Figures	6
Fork	
basic setting, checking	15
compression damping, adjusting	16
rebound damping, adjusting	16
Fork legs	
bleeding	13
dust boots, cleaning	13
spring preload, adjusting	17
standard version, removing	11
WP PRO COMPONENTS version, installing	11
Fuel, oils, etc.	6
I	
Implied warranty	6
Intended use	4
M	
Manufacturer warranty	6
Misuse	4
Motorcycle	
lift stand, raising with	11
lift stand, removing from	14
O	
Owner's Manual	5
P	
Preparing for use	
advice on preparing for first use	8
checks and maintenance measures when preparing for use	9
S	
Safe operation	4
Service	6

Service schedule	10
Spare parts	6
T	
Technical data	
chassis tightening torques	5
fork	19
U	
Use definition	4
W	
Work rules	5



53000267en

09/2021