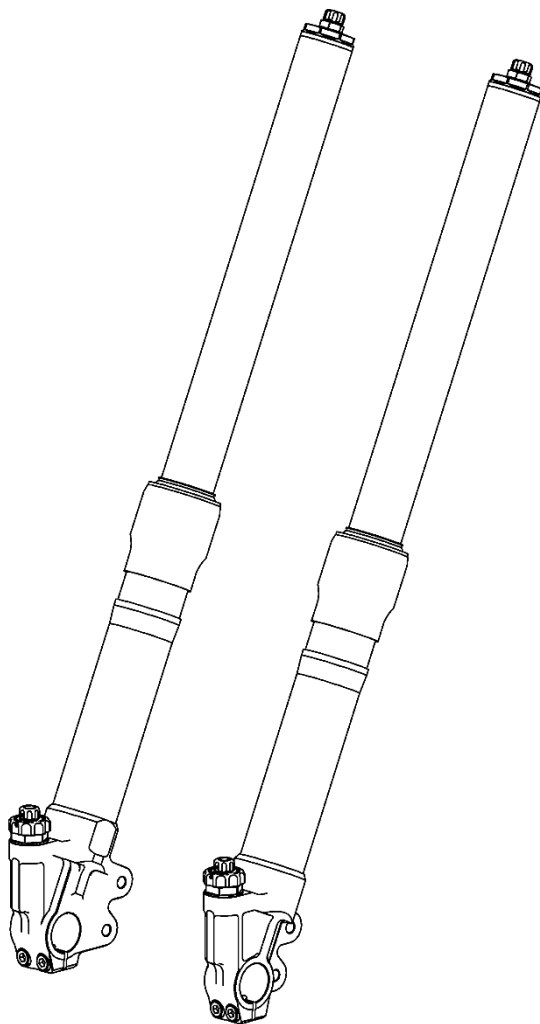


HYPERPRO

Suspension Technology



Fork owners manual H43

V1.0 ENGLISH

At Hyperpro we are always doing our very best to provide riders all over the world with the best possible suspension. Our main challenge has always been to help the everyday rider get the most out of his or her motorcycle under all riding conditions.

The story started in 1992 with our constant rising rate progressive springs, offering a comfortable yet controlled ride at an entry level price. The progressive steering damper was developed in 1996 as an extra safety measure against tank slappers and wobbles, as the power-to-weight ratio of motorcycles was growing fast. For more control and fine tuning of the rear end, we started to make our own shock absorbers in 1999 and height adjustment kits in 2006.

The following years were spent improving that range, but one product had always been missing to complete it.

So, when the request came to develop a front fork for the Japanese muscle bike market, it was a challenge we simply could not refuse. After an exciting development period, in close cooperation with our Japanese distributor, the first Hyperpro front fork was finally born in 2013. Kiwami!

We are very proud and grateful that you decided to be part of our heritage.
Thank you for your confidence.

* Kiwami (Japanese): the point at which someone or something is best, perfect, or most successful.

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Safety remarks – important safety information is highlighted by the following notations:

- **WARNING!** – Failure to follow warning could result in severe or fatal injury.
- **NOTE:** - Indicates information that is of importance with regard to procedure.

WARNING! – Please study this owner’s manual and make sure that you fully understand the mounting instructions. If you have any questions regarding proper installation, contact a Hyperpro dealer.

GENERAL INFORMATION

The Hyperpro H-series conventional front forks are designed without compromise and have the following features:

- fully adjustable damping and spring preload
- 30mm cartridge and rebound piston
- 25mm compression piston
- constant rising rate progressive springs
- bump spring
- top out spring
- low friction seals
- Black (DLC) or Gold (TiN) coated inner tubes
- full CNC machined foot
- aluminum parts anodized and laser engraved

TECHNICAL DETAILS

Rebound damping adjuster

- Manual adjustment (or screwdriver without knob)
- 30 clicks

Spring preload adjuster

- 17mm key (or manual with optional knob)
- 15mm adjustment range
- 30 clicks (0.5mm/click)

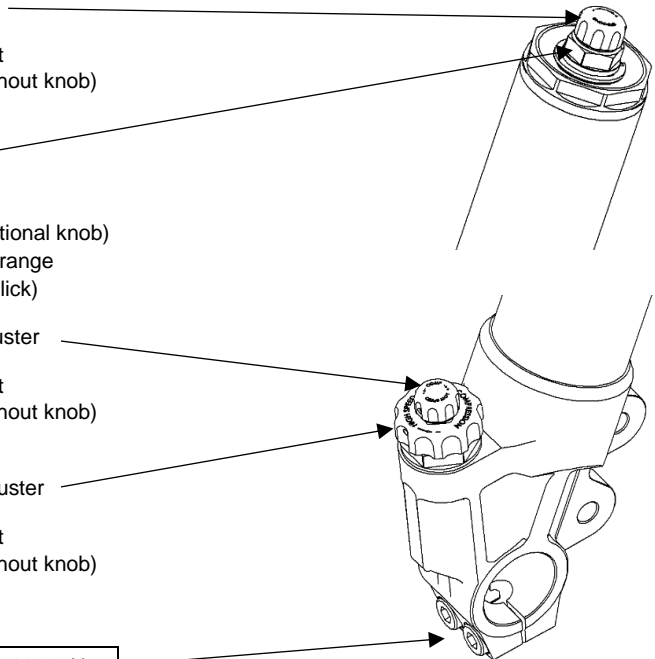
Low speed compression adjuster

- Manual adjustment (or screwdriver without knob)
- 30 clicks

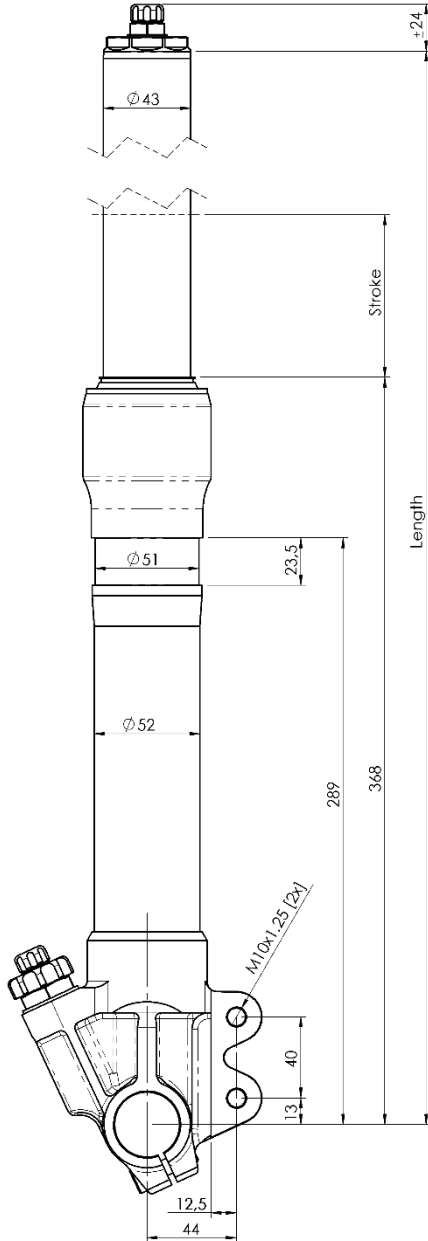
High speed compression adjuster

- Manual adjustment (or screwdriver without knob)
- 30 clicks

Axle clamp bolts M8 10.9	18-20 Nm
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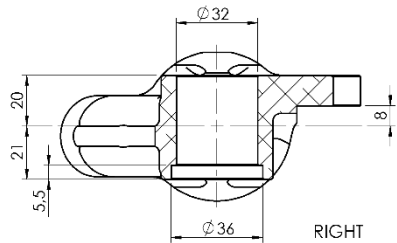
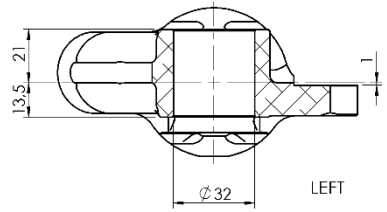


DIMENSIONS



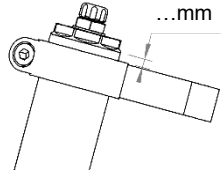
Part no.	Length	Stroke
H43-XXX-740	740	120
H43-XXX-770	770	120
H43-XXX-800	800	130
H43-XXX-815	815	130

(XXX = color code)



INSTALLATION

Before installation, measure the distance between the end of the chrome tube and the top triple clamp. Make sure the Hyperpro fork is fitted at the same distance.



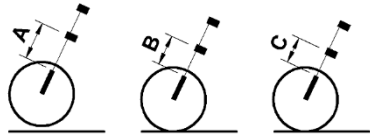
We advise to follow your motorcycle's workshop manual to remove the original front fork from your bike.

Fit the Hyperpro front fork legs in the reversed order or, if available, follow the bike specific Hyperpro fork installation manual. Make sure you use the correct additional axle spacers, brake and fender mounting parts for your bike.

PRELOAD SET-UP

Spring preload determines the amount of sag in the suspension travel. To determine the sag, first measure reference dimensions A, B and C.

Choose a distance to measure between the triple clamp and the wheel axle (e.g. visible chrome length). Measure the following situations:



- A** Reference - Front wheel off the ground, no weight rests on the front suspension.
- B** Sag high - The bike is on both wheels, on a flat surface without rider. Pull up the front of the bike and let it come down on its own weight very slowly, don't push!
- C** Sag low - The bike stands up on both wheels, on a flat surface without rider. Push the front of the bike down and let it come up very slowly, slow down the movement so it does not bounce.

Calculate **Front Static Sag** = $A - \left(\frac{B + C}{2} \right) = \dots \text{ mm}$

A guideline to the correct amount of static sag is about 25-30mm.

Front sag can be modified by changing the amount of fork spring preload (0.5mm/click):

- For less sag, increase the spring preload by turning the adjuster clockwise.*
- For more sag, decrease the spring preload by turning the adjuster counter clockwise.*

DAMPING SET-UP

To set the damping, first fully close the damping by turning the adjuster clockwise. Then set the damping by turning counter clockwise with the desired amount of clicks. Use the setting table below as a guideline.

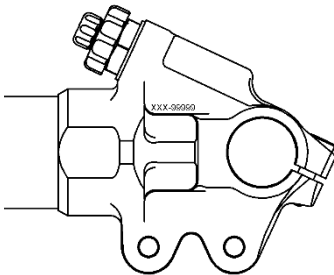
	Rebound	Low speed compression	High speed compression
Comfort	18 clicks	18 clicks	18 clicks
Standard	15 clicks	15 clicks	15 clicks
Sport	11 clicks	11 clicks	11 clicks

Do not forget to adjust the rear suspension to match the front. We strongly recommend to have a suspension expert find the perfect set-up for you and your riding style.

MAINTENANCE

Inspect the fork regularly for damage and leakage. Wash the fork with a mild detergent. Be careful with compressed air and avoid using aggressive cleaners. Always protect your front fork with WD40 oil or similar.

- Every 10.000km or 1 year apply fork grease to the inner tube.
- Every 20.000km or 2 years change the fork oil. Use only Hyperpro oil.



Hyperpro H-series front forks are fully rebuildable. If additional service is required, please contact an authorized Hyperpro dealer.

Each fork leg has been marked with a unique number, it can be found on the inside of the foot. Make sure you have the number(s) when you require service or warranty.

NOTES

WARNING! – Installing a suspension component that is not correct for your bike can affect the stability of your bike. Hyperpro cannot be held responsible for any form of damage to any component, motorcycle or personal injury when there is improper installation of the component and/or if the instructions for mounting or maintenance are not followed exactly. Similarly, the warranty will become void if the instructions are not followed.

This document may be available for download in other languages, please see www.hyperpro.com

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