

# HYPHERPRO

## STEERING DAMPER MOUNTING KIT

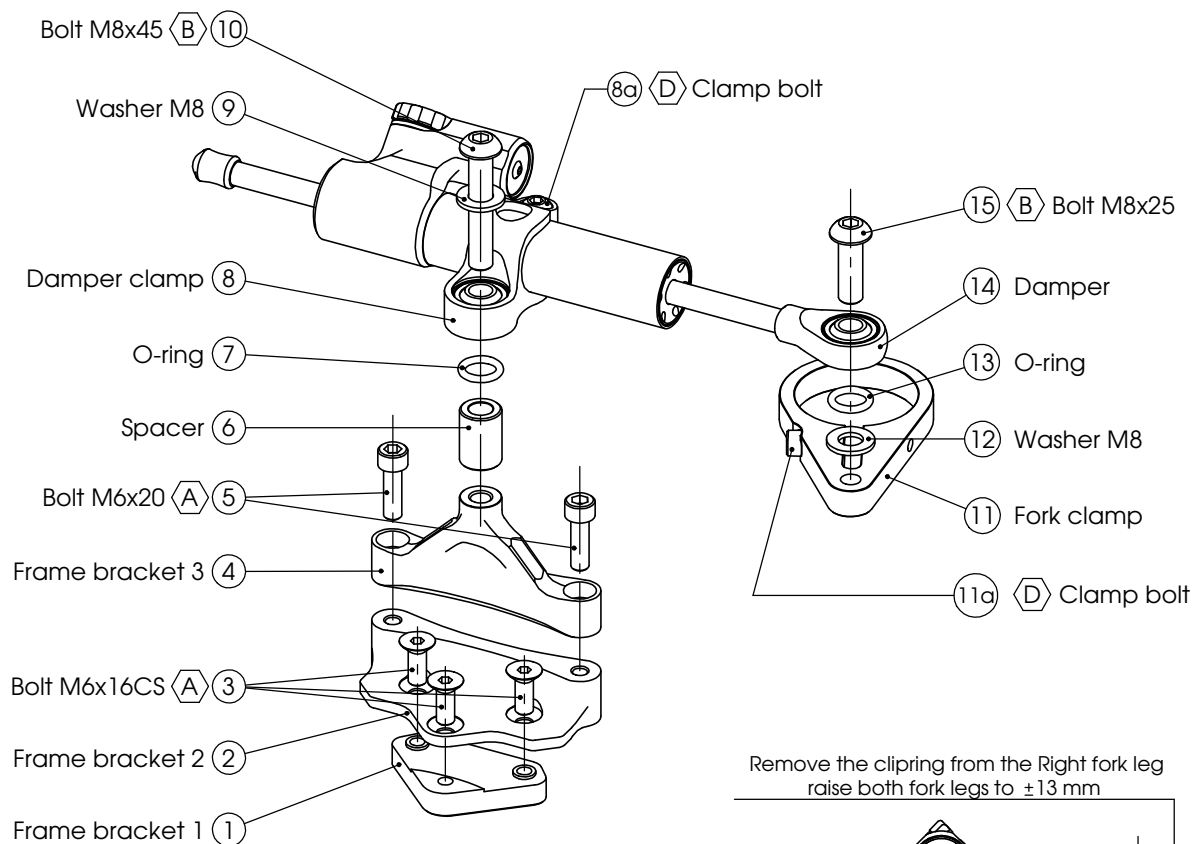
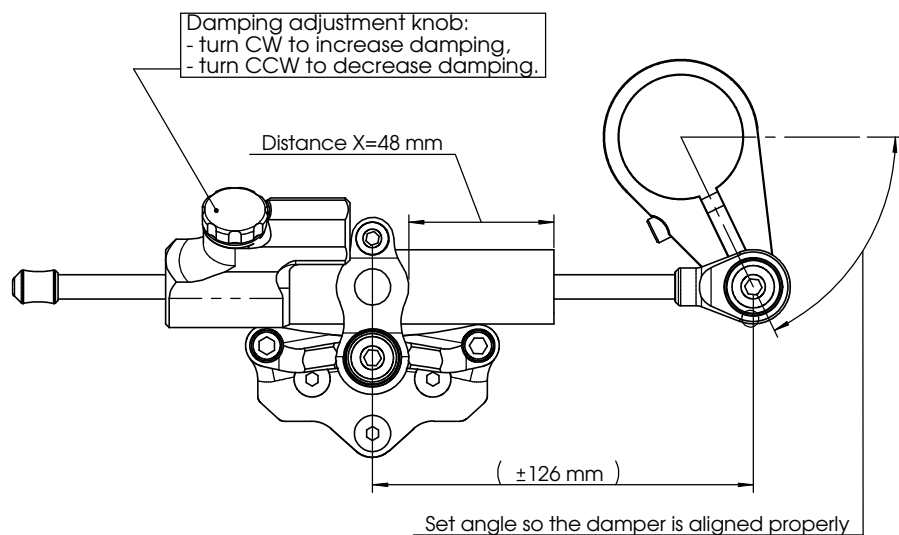
for

### Honda CBR 650 Model 2014->

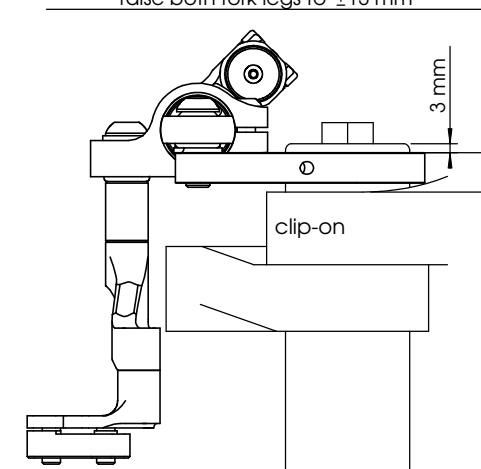
#### MK-H006-T010 PART LIST

SD stroke 75 REVERSED	1	Bolt M6x16 CS	3
Damper Clamp (MP-DB018235)	1	Bolt M6x20	2
O-Ring	2	Bolt M8x25 Button head	1
Fork Clamp (MP-FOMK94)	1	Bolt M8x45 Button head	1
Frame bracket 1 (MP-TAMK84-1)	1	Washer M8 $\phi$ 16	2
Frame bracket 2 (MP-TAMK84-2)	1	-	-
Frame bracket 3 (MP-TAMK84-3)	1	-	-
Spacer (MP-SP0002)	1	-	-

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Remove the clipping from the Right fork leg  
raise both fork legs to ±13 mm



#### \* TORQUES

A: 5-9Nm / 44-80Lbs.In / 4.0-6.4Lbs.Ft

B: 14-17Nm / 124-150Lbs.In / 10.3-12.5Lbs.Ft

C: 6Nm / 53Lbs.In / 4.4Lbs.Ft

D: 8Nm / 70Lbs.In / 5.9Lbs.Ft

E: 55Nm / 486Lbs.In / 40Lbs.Ft

F: Factory torque (see owners manual)

# HYPERPRO

## STEERING DAMPER MOUNTING KIT

for

**Honda CBR 650  
Model 2014->**

### **MK-H006-T010 INSTALLATION INSTRUCTIONS**

#### **In general:**

HYPERPRO can not be held responsible in any way for any form of physical, material, financial or other damage arising from use, assembly or overhaul of HYPERPRO products. HYPERPRO reserves the right to make changes without prior notice.

This product is ONLY TO BE INSTALLED BY A PROFESSIONAL MECHANIC.

This product is only to be used for the motorcycle brand, model and year stated specifically on top of the pages of this manual.

DO NOT attempt to install this product on motorcycles from any different brand, model and/or year than stated on the pages of this manual.

DO NOT use this kit for cars, boats, jet skis, snowmobiles, ATV's, aircraft, hovercrafts or any other vehicle and/or purpose.

HYPERPRO steering dampers are FOR RACE USE ONLY, NOT FOR HIGHWAY USE!

#### **Before installation:**

- Please read the entire manual carefully before starting the installation!
- Check if you have all the tools required. Good tools are a must.
- Protect your bike at the most important places in and around the work area (e.g. tank, fairing, frame, etc.), with a blanket, towel or similar.

#### **During installation:**

- Check all operations and parts carefully before, during and after performing each step.
- Clean all surfaces that are required for fitting parts together or for applying self adhesives or loctite, thoroughly with contactcleaner or another degreaser, unless otherwise stated.
- Be careful not to damage or scratch any part of your bike.
- ALWAYS work relaxed and concentrated!! It is very easy to damage something or make a mistake.

#### **After installation:**

- Check and make sure that there is no contact between any part of the steering damper kit and any part of the motorcycle. The kit should not hit anything. Steering movement should not be limited by the steering damper. If the steering movement is limited, adjust the position of the tube in the clamp until steering movement is normal again. Do not forget to tighten the clamp bolt again!
- ALWAYS check the steering movement and feeling before each ride !
- FIRST RIDES: Start with the damper turned fully open (turn adjuster knob fully counter clockwise). Start adjusting in between rides with steps of MAX. 2 CLICKS (0.25 TURN) EACH TIME, until the damper is working satisfactory for your riding style.
- NEVER USE MAXIMUM SETTING, ALWAYS OPEN AT LEAST 2 CLICKS (0.25 TURN).

- WARNING ! DAMPER HAS AN ACTIVE / SPEEDSENSITIVE DAMPING SYSTEM;
  - Steering with NORMAL MOVEMENT should be FREE !!
  - Steering with FAST MOVEMENT should be CONTROLLED BY DAMPER !!
- HYPERPRO uses a special seal to reduce friction. The seal uses an oil film to work properly. It is normal that some oil can appear on the pistonrod.
- Damper works with oil: DAMPING CAN BE HARDER AT LOWER TEMPERATURES!

#### **Step 1: install the tank brackets**

Remove all necessary bodywork (seat, side fairings) and raise the front of the tank.

Clamp brackets 1 and 2 to the frame, between the steering head and airbox, using the M6x16 countersunk bolts (3).

Tighten the bolts evenly to a torque of approx. 5-9Nm/ 44-80Lbs.In/4.0-6.4Lbs.Ft

Lower the tank and tighten the tank bolts.

Install tank bracket 3 on top of bracket 2 using the M6x20 bolts (5). Make sure it is fitted correctly, exactly as shown in the pictures on page 1.

Tighten the bolts to a torque of approx. 5-9Nm/44-80Lbs.In/4.0-6.4Lbs.Ft

Install the spacer (6), O-ring (7), damper clamp (8), washer (9) and bolt M8x45 (10) to the frame bracket assembly.

#### **Step 2: raise fork legs & install the fork bracket**

Raise the fork legs, one-by-one, through the yokes and clip-ons to a distance of 13mm as shown in the picture on page 1.

Slide the fork clamp (11) over the Right fork leg, with the clamp bolt pointing to the steering head. Set the angle so the distance from the center of the bike to the center of the M8 hole is  $\pm 126$ mm.

Tighten the clamp bolt to a torque of approx. 8Nm/70Lbs.In/5.9Lbs.Ft.

#### **Step 3: install the steering damper**

Install the steering damper using:

- Steering damper, stroke 75 Reversed (14)
- Washer M8  $\varnothing$  16 (12)
- 1x O-ring (13)
- Bolt M8x25 button head (15)

Ensure that the clamp bolt of the damper clamp (8) is pointing forward. Shove the damper (14), with the ball joint first, through the clamp until the ball joint can be fitted to the fork bracket. Use the washer (12), O-ring (13) and M8 bolt (15) to fit the ball joint to the fork bracket and tighten with a torque of approx. 14-17Nm/124-150Lbs.In/10.3-12.5Lbs.Ft.

Position the damper tube until the distance of 48mm stated on page 1 is reached, then tighten the M6 clamp bolt (8a) with a torque of approx. 6Nm/53Lbs.In/4.4Lbs.Ft.

Rebuild all the bodywork that was removed in Step 1.

Check if the damper is level horizontally and aligned to the bike. Check if the damper does not touch anything (e.g. tank) when steering from left to right. Check if the bike can make it's full steering angle from left to right.

Adjust the angle of the fork clamp or the clamp distance of the damper body, if necessary to improve fitment. Do not forget to retighten all the bolts.