

# HYPHERPRO

## STEERING DAMPER MOUNTING KIT

for

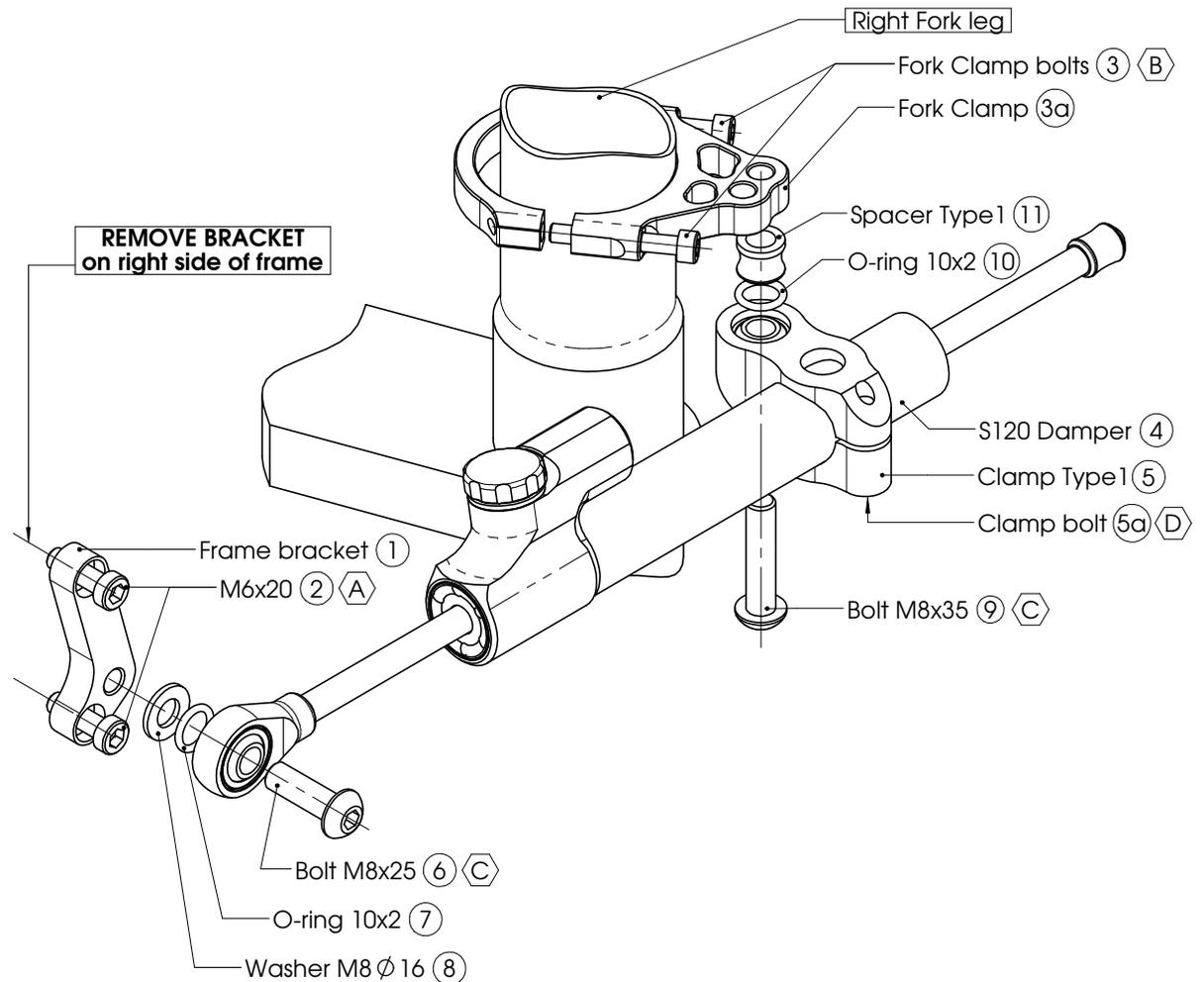
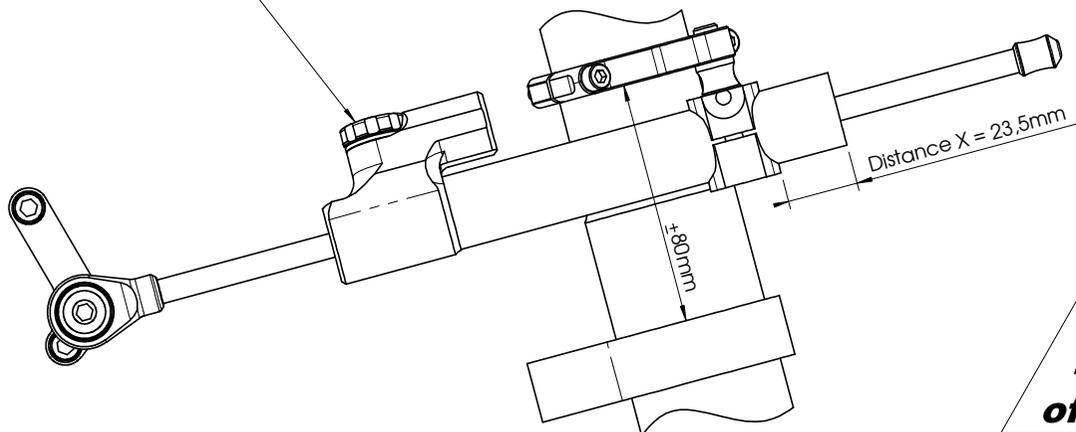
### HONDA CBR 600 RR (RACE-KIT) Model 2007>

#### MK-H006-S005 PART LIST

SD stroke 120	1	Spacer Type 1	1
Tube Clamp Type 1	1	Washer M8 $\phi$ 16	1
Fork Clamp $\phi$ 47	1	-	-
Frame Bracket	1	-	-
O-ring 10x2	2	-	-
M6x20 Low head	2	-	-
M8x25 Button head	1	-	-
M8x35 Button head	1	-	-

ALL IDEAS, DESIGNS ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY HYPERPRO AND WERE CREATED, EVOLVED AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIC PROJECT. NONE SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF HYPERPRO.

Damping adjustment knob:  
- turn CW to increase damping,  
- turn CCW to decrease damping.  
Avoid using maximum setting.



**\*\*\* ATTENTION: RACE-KIT \*\*\***  
**may interfere with stock parts!**  
**( e.g: headlights, body parts, cables,**  
**stock brake hoses, etc.)**

**MODIFICATIONS TO STOCK PARTS MAY  
BE NECESSARY FOR PROPER FITMENT !**

A	5-9Nm / 44-80Lbs.In / 4.0-6.4Lbs.Ft	C	14-17Nm / 124-150Lbs.In / 10.3-12.5Lbs.Ft
B	8Nm / 70Lbs.In / 5.9Lbs.Ft	D	6Nm / 53Lbs.In / 4.4Lbs.Ft

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of 2

See [WWW.HYPERPRO.COM](http://WWW.HYPERPRO.COM) for the latest pictures, modifications, specs. and e-drawings of this steering damper kit.

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### MK-H006-S005 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-skies, 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 contact cleaner 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!



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#### **Step 1: REMOVE THE H.E.S.D.**

- Remove seat, side fairings and tank cover.
- Remove the original HESD steering damper and all of its components, disconnect the power supply

#### **Step 2: installing the frame bracket**

Install the frame bracket using:

- Frame bracket (1)
- 2x Bolt M6x20 Low head (2)

Remove the bracket on the right side of the frame that is held by 2 M6 bolts. Fit the Hyperpro frame bracket (1) to the frame using the 2 supplied M6 bolts (2) as shown in the pictures on page 1. Tighten the bolts with a torque of approx. 5-9Nm/44-80Lbs.In/4.0-6.4Lbs.Ft

#### **Step 3: installing the fork clamp**

Install the fork clamp using:

- Fork clamp  $\varnothing$ 47 assembly (3)

Disassemble the fork clamp (3) by removing the M5 clamp bolts (3a). Re-assemble around the right fork leg, approximately 80mm above the lower triple clamp. Make sure the clamp (3) is orientated correctly and tighten the clamp bolts (3a) evenly to a torque of approx. 8Nm/70Lbs.In/5.9Lbs.Ft.

#### **Step 4: damper and tube clamp assembly**

Assemble the damper and bracket using:

- Steering Damper Stroke 120 (4)
- Tube Clamp Type 1 (5)

Put the assembly together as shown on page 1: Make sure the clamp (5) is orientated correctly and carefully slide it over the damper tube (4). Set distance X and tighten the clamp bolt (5a) with a torque of approx. 6Nm/53Lbs.In/4.4Lbs.Ft.

#### **Step 5: installing the steering damper**

Install the steering damper using:

- Bolt M8x25 button head (6)
- 2x O-ring (7) (10)
- Washer M8  $\varnothing$ 16 (8)
- Bolt M8x35 button head (9)
- Spacer Type 1 (11)

Use the M8x25 bolt (6) to fit the damper (4) to the frame bracket (1), placing an o-ring (7) and washer (8) in between. Tighten the bolt with a torque of approx.14-17Nm/124-150Lbs.In/10.3-12.5Lbs.Ft.

Use the M8x35 bolt (9) to fit the damper clamp (5) to the outer mounting hole of the fork clamp (3), placing an o-ring (10) and spacer (11) in between. Tighten the bolt with a torque of approximately 14-17Nm/124-150Lbs.In/10.3-12.5Lbs.Ft.

Check if the damper does not touch anything when steering from left to right. Cut bodywork if needed! Since race bikes have a limited steering angle, it is possible that the bike can NOT make it's full original steering angle from left to right after the steering damper is fitted. Adjust the angle and position of the fork clamp (3) and or tube clamp (5) if needed to improve fitment.