

# HYPHERPRO

## STEERING DAMPER MOUNTING KIT

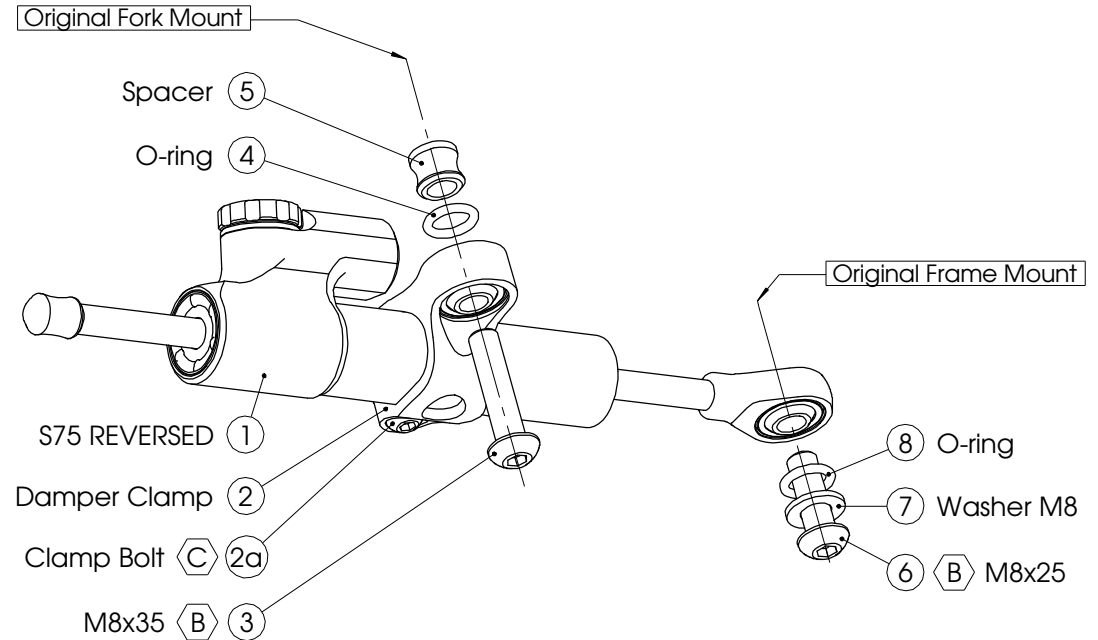
for

**BMW F800 S ('06>),  
F800 ST ('07>), F800 R ('09>)**

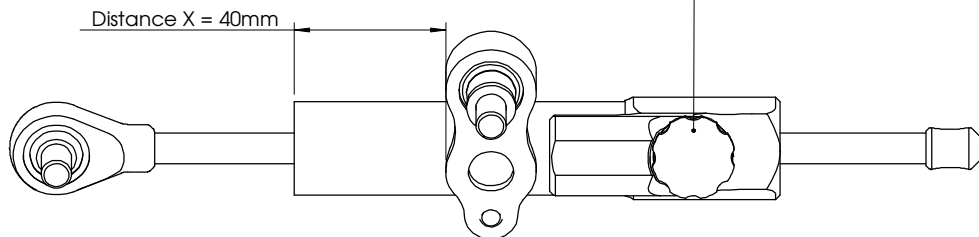
### MK-BM08-0001 PART LIST

SD S75 REVERSED	1	-	-
Damper Clamp (DB018235)	1	-	-
O-Ring	2	-	-
Spacer Type 1(SP0001)	1	-	-
M8x25 Button head	1	-	-
M8x35 Button head	1	-	-
Washer M8 $\phi$ 16	1	-	-
-	-	-	-

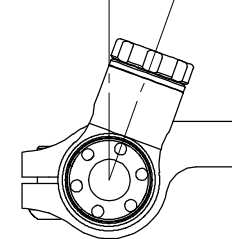
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**DAMPING ADJUSTER KNOB:**  
 - turn CW to increase damping  
 - turn CCW to decrease damping  
**NEVER USE MAXIMUM SETTING !!!**



$\pm 20^\circ$  adjust later if necessary



#### \* 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

**BMW F800 S ('06>),  
F800 ST ('07>), F800 R ('09>)**

### **MK-BM08-0001 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!

#### ***Step 1: remove the original steering damper***

Remove the M8 bolts from the fork and frame mounting points using a T45 Torx key.

#### ***Step 2: reverse the Hyperpro steering damper***

Reverse the damper according to the "CSC/RSC reversal manual".

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

Install the tube clamp to steering damper using:

- Reversed S75 steering damper (1)
- Tube clamp Type 1 (2)

Put the assembly together as shown on page 1: Shove the clamp (2) correctly over the ball joint of the steering damper until distance X is reached. See pictures for details.

Set the angle of the tube clamp (2) as shown in the picture and tighten the clamp bolt (2a) with a torque of approx. 6Nm/53Lbs.In/4.4Lbs.Ft.

#### ***Step 4: installing the steering damper***

Install the steering damper using:

- Steering damper and tube clamp from step 3
- Bolt M8x35 button head (3)
- 2x O-ring (4, 8)
- Spacer Type 1 (5)
- Bolt M8x25 button head (6)
- Washer M8 Ø 16 (7)

Use M8x35 bolt (3), O-ring (4) and spacer (5) to fit the tube clamp to the original fork mount, on the back of the lower triple tree. Use the M8x25 bolt (6), washer (7) and O-ring (8) to fit the ball-joint to the original frame mount. Tighten the M8 bolts with a torque of approx. 14-17Nm/124-150Lbs.In/10.3-12.5Lbs.Ft.

Check if the damper does not touch anything (e.g. engine, fork) when steering from left to right. Check if the bike can make its full steering angle from left to right.

Adjust the position of the damper if necessary by loosening and retightening the clamp bolt (2a).