

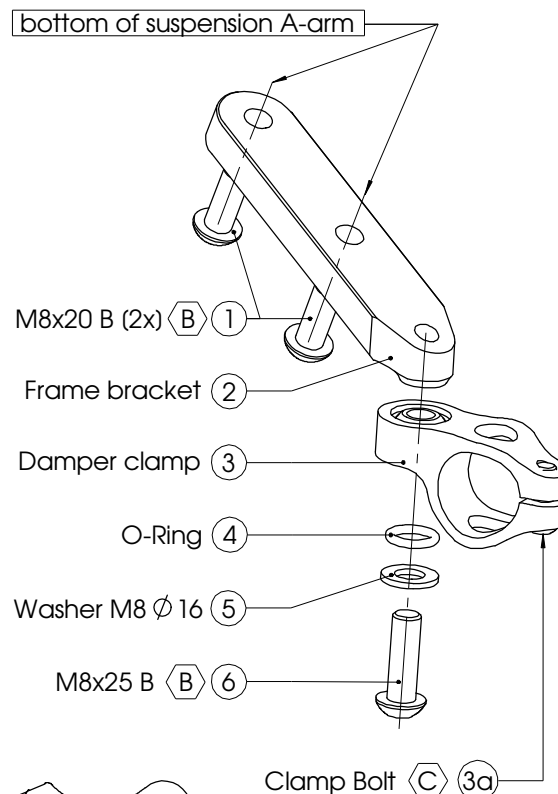
# **HYPERPRO**

## **STEERING DAMPER MOUNTING KIT**

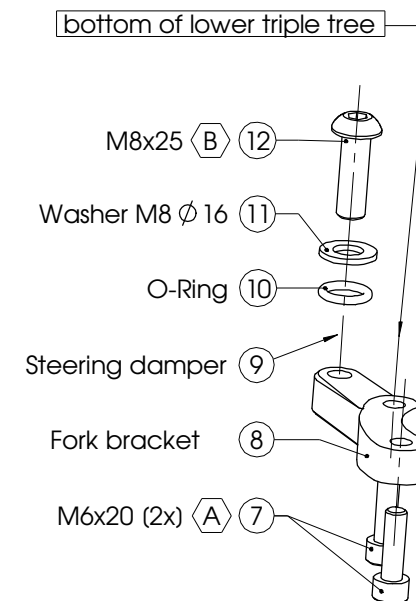
for  
**BMW R1100 S**  
**Model '93 -'05**

### **MK-BM11-B001 PART LIST**

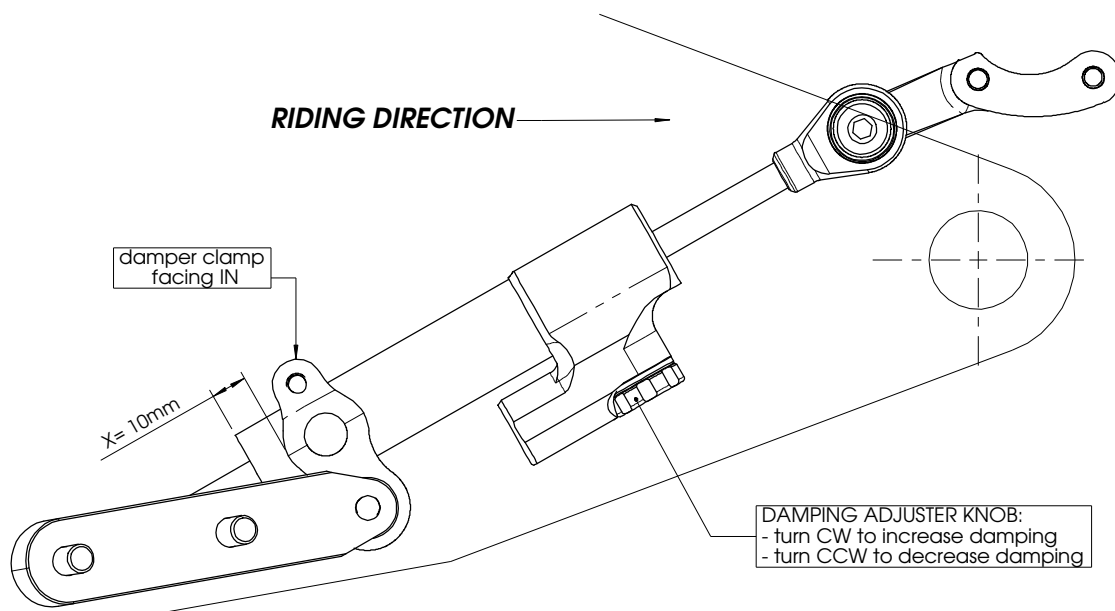
SD stroke 75	1	Washer M8 $\phi$ 16	2
Damper Clamp (DB018235)	1	-	-
O-Ring	2	-	-
Fork bracket (FOMK79)	1	-	-
Frame bracket (FRMK23)	1	-	-
M6x20	2	-	-
M8x20 Button head	2	-	-
M8x25 Button head	2	-	-



**Remove FRONT WHEEL  
and MUDGUARD to  
mount fork bracket**



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<b>A</b>	5-9Nm / 44-80Lbs.In / 4.0-6.4Lbs.Ft
<b>B</b>	14-17Nm / 124-150Lbs.In / 10.3-12.5Lbs.Ft
<b>C</b>	6Nm / 53Lbs.In / 4.4Lbs.Ft

# HYPERPRO

## STEERING DAMPER MOUNTING KIT

for

### **BMW R1100 S** **Model '93 -'05**

#### **MK-BM11-B001 INSTALLATION INSTRUCTIONS**

##### ***In general:***

HYPERPRO can not be held responsible in any way for 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: install the frame bracket***

- 2x M8x20 bolt (1)
- Frame bracket (2)

Install the frame bracket (2) to the original mounting holes under the lower telelever arm. Use the M8x20 bolts (1) and tighten them with a torque of approx. 14-17Nm/124-150Lbs.In/10.3-12.5Lbs.Ft.

##### ***Step 2: install the damper clamp***

- Damper Clamp Type 1 (3)
- O-Ring (4)
- Washer M8  $\varnothing$  16 (5)
- Bolt M8x25 B (6)

Put the assembly together as shown on page 1:

Mount the damper clamp (3) to the frame bracket (2) using the O-ring (4), washer (5) and M8x25 bolt (6). Tighten the bolt with a torque of approx. 14-17Nm/124-150Lbs.In/10.3-12.5Lbs.Ft.

##### ***Step 3: install the fork bracket***

Remove front wheel and mudguard. Refit all parts after installation of the steering damper kit is finished.

- 2x M6x20 bolt (7)
- Fork bracket (8)

Install the fork bracket (8) to the original mounting holes under the lower triple clamp. Use the M6x20 bolts (7) and tighten them with a torque of approx. 5-9Nm/44-80Lbs.In/4.0-6.4Lbs.Ft.

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

- Steering damper (9)
- 1x O-ring (10)
- Washer M8  $\varnothing$  16 (11)
- Bolt M8x25 button head (12)

ensure that the clamp bolt of the damper clamp (3) is pointing INward (to the left).

Shove the damper (9), with the end knob-side first, through the clamp until the ball joint can be fitted to the fork bracket (8). Use the O-ring (10), washer (11) and M8 bolt (12) to mount 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 "X" stated on page 1 is reached, then tighten the clamp bolt (3a) with a torque of approx. 6Nm/53Lbs.In/4.4Lbs.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.