

HYPERPRO

STEERING DAMPER MOUNTING KIT

for

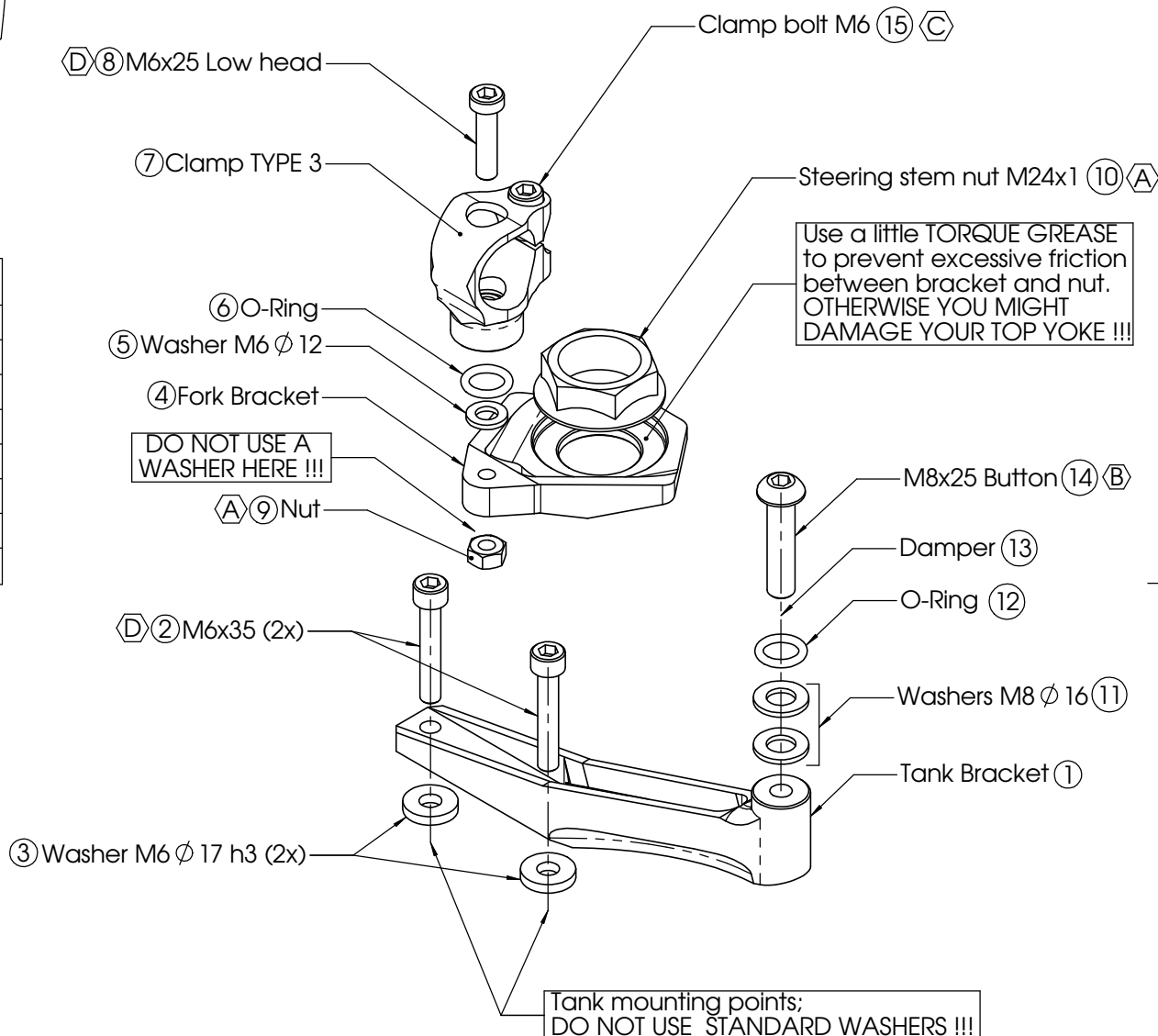
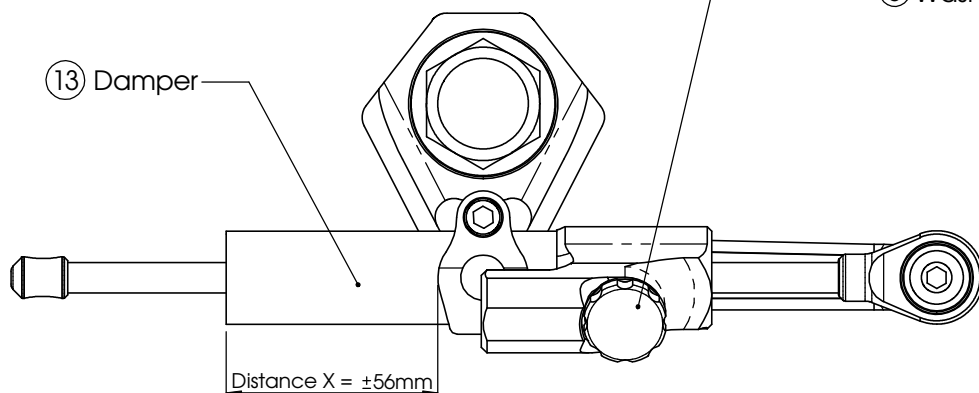
HONDA CBR900RR FireBlade
Models 2002 - 2003<

MK-H009-T005 PART LIST

SD stroke 75	1	Washer M6 ϕ 12	1
Tube Clamp TYPE 3	1	Washer M6 ϕ 17, h3	2
O-Ring	2	Washer M8 ϕ 16	2
CNC Fork Bracket	1	Nut M6	1
CNC Tank Bracket	1	Grease	1
M8x25 Button head	1	-	-
M6x25 Low head	1	-	-
M6x35	2	-	-

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 ADJUSTER KNOB:
- turn CW to increase damping
- turn CCW to decrease damping
avoid using maximum setting



Ⓐ 103Nm / 912Lbs.In / 76Lbs.Ft

Ⓒ 6Nm / 53Lbs.In / 4.4Lbs.Ft

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

Ⓓ 5-9Nm / 44-80Lbs.In / 4.0-6.4Lbs.Ft

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MK-HO09-T005 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: installing the tank bracket

- Tank bracket (1)
- 2x Bolt M6x35 (2)
- 2x Washer M6 Ø 17 h=3 (3)

Remove the 2 standard M6x30 bolts (8mm socket) and washers from the front tank mounting points. Install the tank bracket (1), using the 2 supplied M6x35 bolts (2), place ONLY the supplied M6 washers (3) underneath the bracket for support as shown in the right picture on page 1. Tighten the bolts with a torque of approx. 5-9Nm/44-80Lbs.In/4.0-6.4Lbs.Ft

Step 2: fork bracket pre-assembly

- Fork bracket (4)
- Washer M6 Ø 12 (5)
- 1x O-Ring (6)
- TubeClamp TYPE 3 (7)
- Bolt M6x25 Low head (8)
- Nut M6 (9)

Put the assembly together as shown on page 1: Take the fork bracket (4), place the washer (5), the O-ring (6) and the tube clamp (7) inline on top of the M6 hole and put the M6 bolt (8) through all the parts and screw it into the thread of the bracket. Tighten the bolt with a torque of approx. 5-9Nm/44-80Lbs.In/4.0-6.4Lbs.Ft. Screw the lock nut M6 (9) on the bottom side of the bolt (sticking out). Tighten the nut with a torque of approx. 5-9Nm/44-80Lbs.In/4.0-6.4Lbs.Ft

Step 3: installing the fork bracket

- Fork bracket pre-assembly

Loosen and remove the steering stem nut (10), using a 30mm socket wrench. Remove standard washer. Place the assembly over the thread and in the pocket, with the allocation notch in the groove. Put some torquing grease on the pocket surface of the bracket and the bottom of the nut. Put the nut on top of the forkclamp and TORQUE VERY CAREFULLY to a torque of approx. 103Nm/912Lbs.In/76Lbs.Ft (factory spec). Watch the allocation notch carefully on movement during torquing, STOP IF IT MOVES TOO MUCH: if the notch breaks, your top yoke will be scratched because of the bracket spinning around!!

Step 4: installing the steering damper

- Steering damper (13)
- 2x Washer M8 Ø 16 (11)
- 1x O-ring (12)
- Bolt M8x25 button head (14)

Ensure that the clamp bolt of the Tube clamp is pointing forward. Shove the damper (14), with the end knob-side first, through the clamp until the ball joint can be fitted to the tank bracket. Use the washers (11), O-ring (12) and M8 bolt (14) to fixate the balljoint to the tank 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" (=56mm) stated on page 1 is reached, then tighten the M6 clamp bolt (15) with a torque of approx. 6Nm/53Lbs.In/4.4Lbs.Ft.

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 and adjust if necessary.