

# HYPHERPRO

## STEERING DAMPER MOUNTING KIT

for

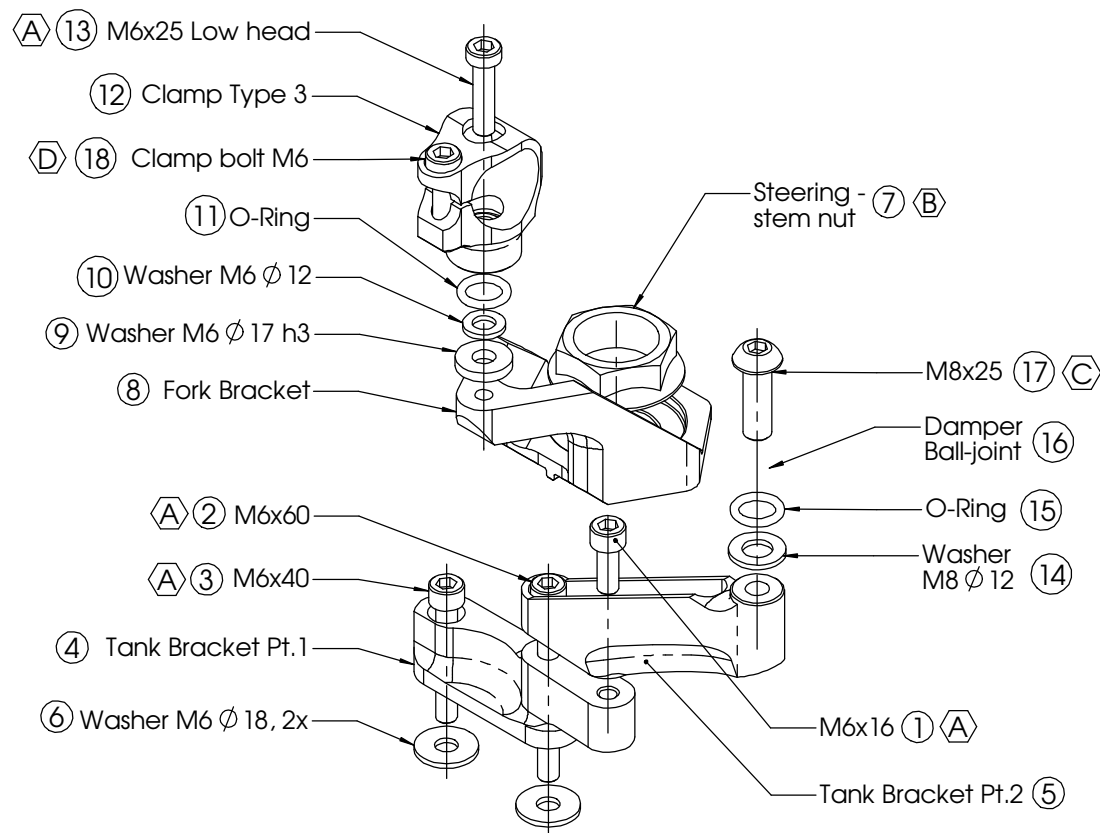
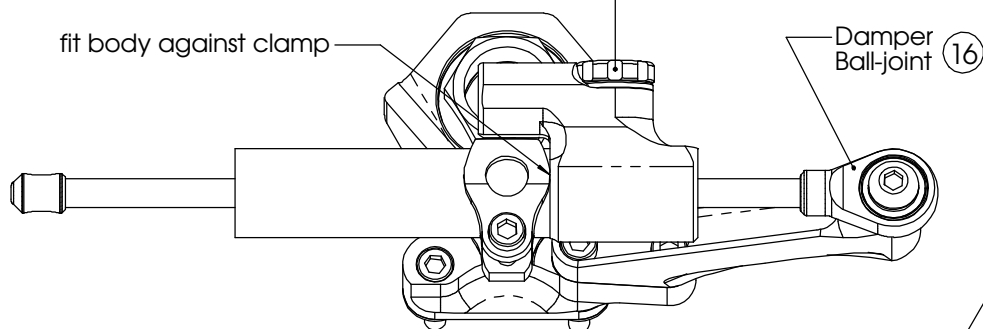
### HONDA VTR1000F Firestorm Model '97 >

#### MK-HO10-T005 PART LIST

Damper S75	1	M6x40	1
Tube Clamp TYPE 3	1	M6x60	1
O-Ring	2	M8x25 Button head	1
Fork Bracket	1	Washer M6 $\phi$ 12	1
Tank Bracket Part 1	1	Washer M6 $\phi$ 17 h3	1
Tank Bracket Part 2	1	Washer M6 $\phi$ 18	2
M6x16	1	Washer M8 $\phi$ 12	1
M6x25 Low head	1	-	-

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



1  
of 2

(A) 5-9Nm / 44-80Lbs.In / 4.0-6.4Lbs.Ft	(C) 14-17Nm / 124-150Lbs.In / 10.3-12.5Lbs.Ft
(B) 55-75Nm / 486-663Lbs.In / 40-55Lbs.Ft	(D) 6Nm / 53Lbs.In / 4.4Lbs.Ft

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-HO10-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.

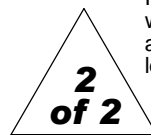
#### During installation:

- 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 assembly

Install the tank bracket using:

- Bolt M6x16 (1)
- Bolt M6x40 (3)
- Bolt M6x60 (2)
- Tank bracket part 1 (4)
- Tank bracket part 2 (5)
- 2x Washer M6  $\varnothing$  18 (6)

Remove the 2 standard M6 bolts and washers from the front tank mounting points.

Install the tank bracket (4 & 5), using the supplied M6 bolts (1, 2 & 3) place the supplied M6 washers (6) underneath the bracket for support as shown in the picture on page 1.

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

#### Step 2: installing the fork bracket assembly

Install the fork bracket using:

- Fork bracket (8)
- Washer M6  $\varnothing$  17 h3 (9)
- Washer M6  $\varnothing$  12 (10)
- 1x O-Ring (11)
- Tube Clamp TYPE 3 (12)
- Bolt M6x25 Low head (13)

Loosen and remove the steering stem nut (7). Remove standard washer. Place the fork bracket (8) over the thread and in the pocket, with the allocation notch in the groove. Put some (torqueing-)grease on the pocket surface of the bracket and the bottom of the nut. Put the nut on top of the fork clamp and TORQUE VERY CAREFULLY to a torque of approx. 55-75Nm/486-663Lbs.In/40-55Lbs.Ft. Watch the allocation notch carefully on movement during torqueing, STOP IF IT MOVES TOO MUCH: if the notch breaks, your top yoke will be scratched because of the bracket spinning around!!

Put the assembly together as shown on page 1: Take the fork bracket (8), place the washers (9 & 10), the O-ring (11) and the tube clamp (12) inline on top of the M6 hole and use the M6 bolt (13) through all the parts to 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.

Check the clearance of the bracket when steering from left to right, movement should be free!

#### Step 3: installing the steering damper

Install the steering damper using:

- Washer M8  $\varnothing$  12 (14)
- 1x O-ring (15)
- Steering damper, stroke 75 (16)
- Bolt M8x25 button head (17)

Ensure that the clamp bolt of the Tube clamp is pointing backward. Shove the damper (16), with the end-cap-side first, through the clamp until the ball joint can be fitted to the tank bracket.

Use the Washer (14), O-ring (15) and M8 bolt (17) 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 damper touches the clamp, then tighten the M6 clamp bolt (18) 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.

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