

HYPHERPRO

STEERING DAMPER MOUNTING KIT

for

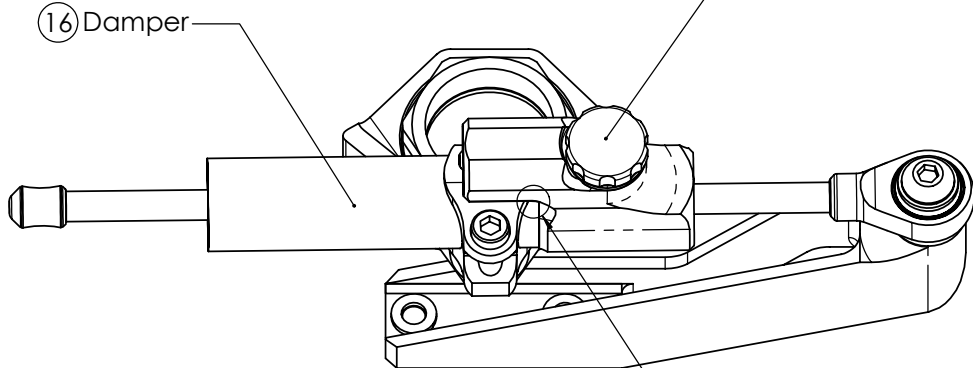
HONDA VTR1000 SP-2 (RC 51) Model 2002 ->

MK-HO10-T003 PART LIST

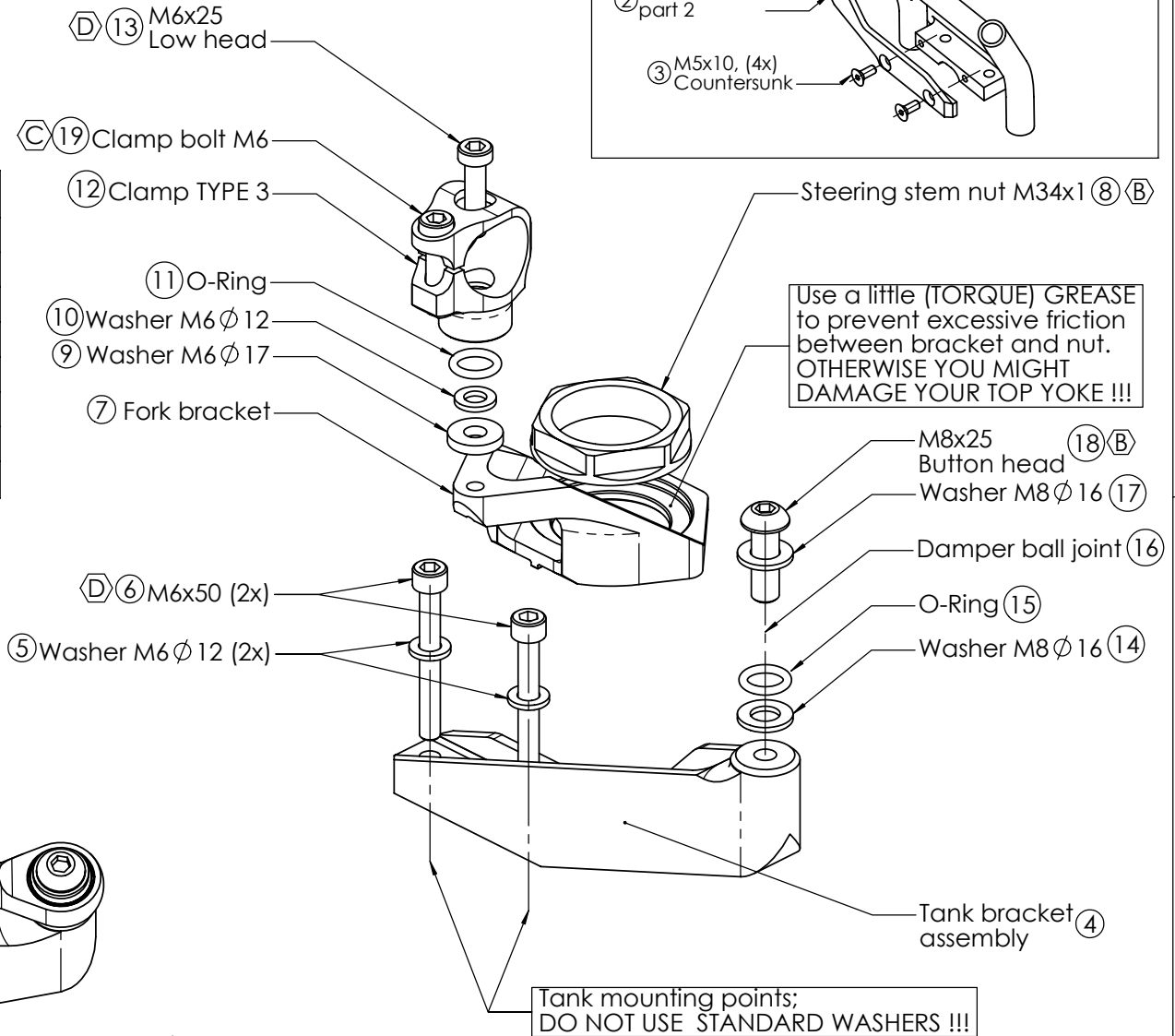
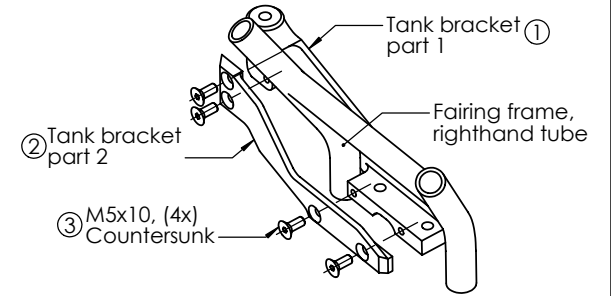
SD stroke 75	1	M8x25 Button head	1
Tube Clamp TYPE 3	1	Washer M6 ϕ 12	3
O-Ring	2	Washer M6 ϕ 17 h=3	1
Fork Bracket	1	Washer M8 ϕ 16	2
Tank Bracket Pt.1	1	M5x10 Countersunk	4
Tank Bracket Pt.2	1	-	-
M6x25 Low head	1	-	-
M6x50	2	-	-

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



Step 1: Tank bracket assembly



1
of 2

Ⓐ 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

See WWW.HYPERPRO.COM for the latest pictures, modifications, specs. and e-drawings of this steering damper kit.

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HONDA VTR1000 SP-2 (RC 51) Model 2002 ->

MK-HO10-T003 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.

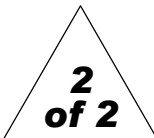
During installation:

- 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 part 1 (1)
- Tank bracket part 2 (2)
- 4x M5x10 Countersunk (3)
- 2x Washer M6 ϕ 12 (5)
- 2x Bolt M6x50 (6)

Place parts 1 & 2 around the righthand tube of the fairing frame and bolt them together using the M5 bolts (3). Tighten the bolts with a torque of approx. 7Nm/60Lbs.In/5.0Lbs.Ft.

Remove the 2 standard M6 bolts and washers from the front tank mounting points. Install the tank bracket assembly (4) using ONLY the supplied M6 washers (5) and M6x50 bolts (6) as shown in the right picture on page 1. Tighten the M6 bolts with a torque of approx. 5-9Nm/44-80Lbs.In/4.0-6.4Lbs.Ft

Step 2: installing the fork bracket

- Fork bracket (7)

Loosen and remove the steering stem nut (8), using a 30mm socket wrench. Place the bracket (7) 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 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 torqueing, STOP IF IT MOVES TOO MUCH: if the notch breaks, your top yoke will be scratched because of the bracket spinning around!!

Step 3: fork bracket assembly

- Washer M6 ϕ 17 (9)
- Washer M6 ϕ 12 (10)
- 1x O-Ring (11)
- TubeClamp TYPE 3 (12)
- Bolt M6x25 Low head (13)

Put the assembly together as shown on page 1: Place the washers (9+10), the O-ring (11) and the tube clamp (12)(CLAMP BOLT POINTING TO THE REAR) inline on top of the M6 hole and put the M6 bolt (13) 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.

Step 4: installing the steering damper

- Steering damper (16)
- 2x Washer M8 ϕ 16 (14+17)
- 1x O-ring (15)
- Bolt M8x25 button head (18)

Ensure that the clamp bolt of the tube clamp is pointing to the rear. Shove the damper (16), with the end-knob-side first, through the clamp until the ball joint can be fitted to the tank bracket. Use the washers (14+17), O-ring (15), M8 bolt (14) to fixate the balljoint (as shown) 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 body is fully against the clamp, then tighten the M6 clamp bolt (19) 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.

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