

HYPHERPRO

STEERING DAMPER MOUNTING KIT

for

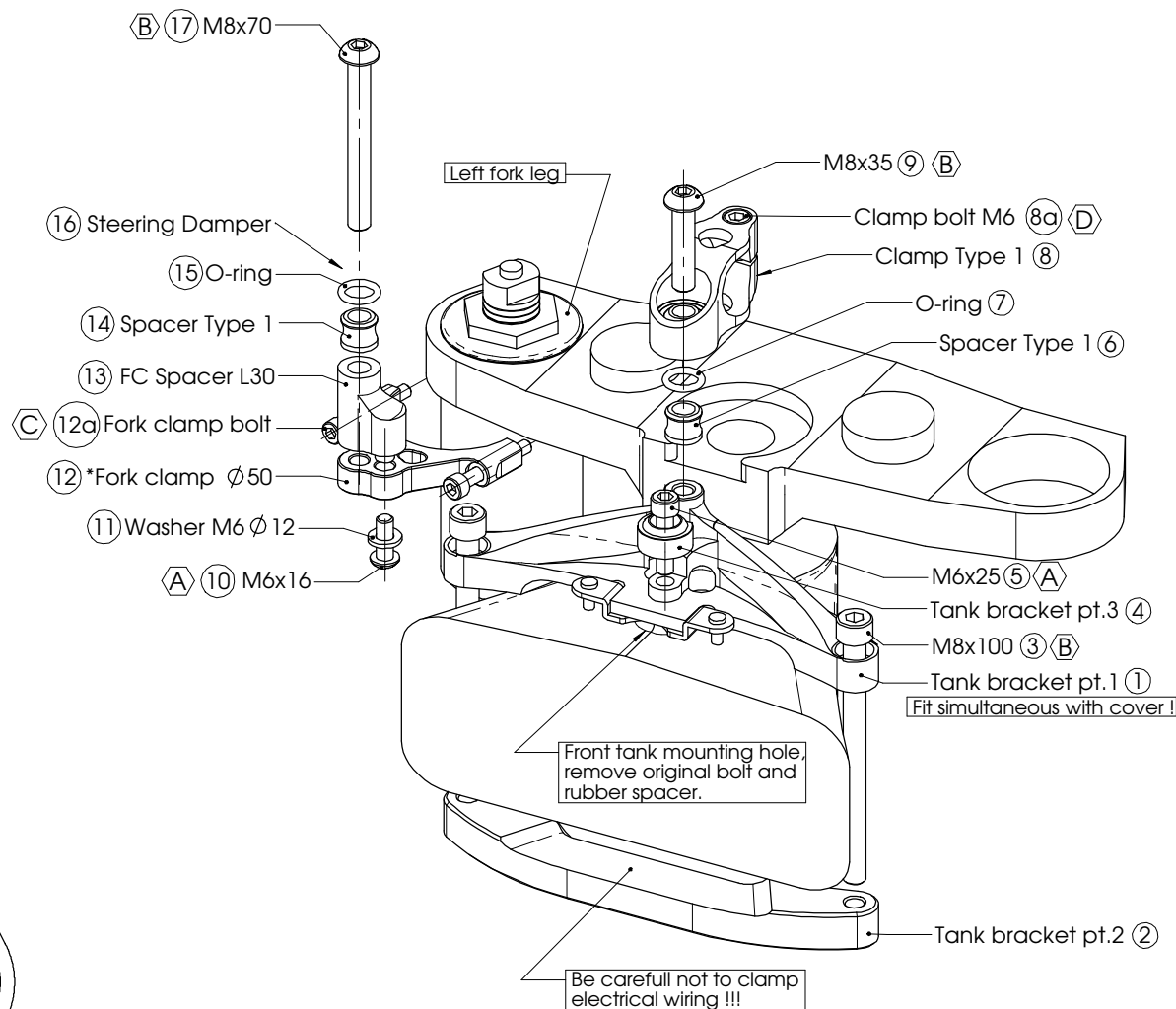
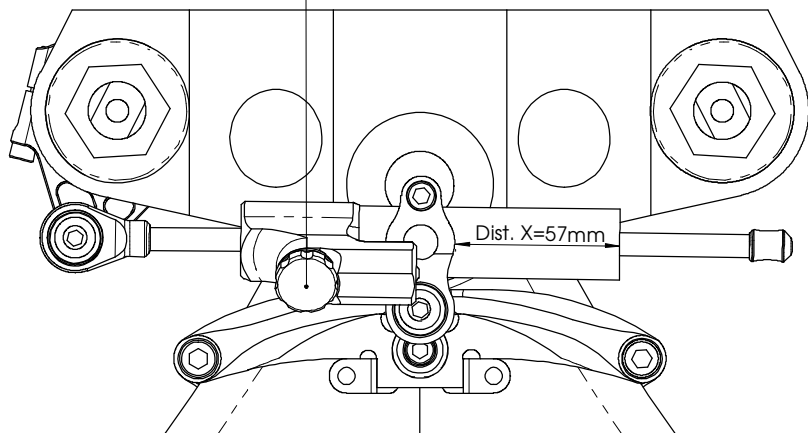
YAMAHA FZ-1 Models 2006 >

MK-YA10-T008 PART LIST

SD stroke 75	1	M6x16 Button head	1
Tube Clamp TYPE 1	1	M6x25	1
O-Ring	2	M8x35 Button head	1
Fork Clamp ϕ 50	1	M8x70 Button head	1
FC Spacer L30	1	M8x100	2
Tank bracket part 1	1	Washer M6 ϕ 12	1
Tank bracket part 2	1	Spacer TYPE 1	2
Tank bracket part 3	1	-	-

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



* Set the height and angle of the fork clamp, so the damper is horizontal and aligned properly. Check if steering is free from left to right.

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of 2

(A) 5-9Nm / 44-80Lbs.In / 4.0-6.4Lbs.Ft	(C) 8Nm / 70Lbs.In / 5.9Lbs.Ft
(B) 14-17Nm / 124-150Lbs.In / 10.3-12.5Lbs.Ft	(D) 6Nm / 53Lbs.In / 4.4Lbs.Ft

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

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MK-YA10-T008 INSTALLATION INSTRUCTIONS

In general:

HYPHERPRO 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 HYPHERPRO products. HYPHERPRO 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.

HYPHERPRO 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.

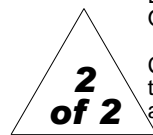
During installation:

- 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 !!
- HYPHERPRO 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

Install the tank bracket using:

- Tank bracket parts 1, 2 and 3 (1, 2, 4)
- 2x Bolt M8x100 (3)
- Bolt M6x25 (5)
- Spacer Type 1 (6)
- O-ring (7)
- Damper clamp Type1 (8)
- Bolt M8x35 Button head (9)

Remove the front center tank mount bolt and the rubber spacer. Remove the complete front part of the tank cover. On the models with fairing, this requires removing the black plastic panels left and right first.

Place the tank cover over Tank bracket part 1 (1) and fit them simultaneously, making sure that the tank cover is seated properly in its original position. Use the M6x25 bolt (5) through Tank bracket pt.3 (4) to mount the tank bracket to the frame, but do not tighten yet.

Shove Tank bracket pt.2 (2) through the frame as shown on page 1. Make sure that there is nothing stuck between the bracket and the frame. Use the M8x100 bolts (3) to join (1) and (2) together.

Tighten the bolts by hand evenly making sure that the brackets are aligned properly and finish by tightening the M8 bolts (3) to a torque of 14-17Nm/124-150Lbs.In/10.3-12.5Lbs.Ft.

Tighten the M6 bolt (5) with a torque of 5-9Nm/44-88Lbs.In/4.0-6.4Lbs.Ft.

Fit the damper clamp (8) to the tank bracket (1) using the spacer (6), O-ring (7) and the M8x35 bolt (9). Tighten the bolt with a torque of approx. 14-17Nm/124-150Lbs.In/10.3-12.5Lbs.Ft

Step 2: installing the fork clamp assembly

Install the fork clamp assembly using:

- Bolt M6x16 button head (10)
- M6 Washer \varnothing 12 (11)
- Fork clamp \varnothing 50 (12)
- Fork clamp spacer L30 (13)

Fit the FC spacer (13) correctly to the fork clamp (12), as shown in the picture on page 1. Make sure that the M8 holes are aligned and use the M6x16 bolt (10) and the washer (11) to fix them together. Tighten the bolt (10) with a torque of approx. 5-9Nm/44-80Lbs.In/4.0-6.4Lbs.Ft.

Loosen and remove the fork clamp bolts (12a) and re-assemble the fork clamp (12) around the left fork leg. Set the height a few mm from the top yoke and the angle approximately according to the pictures on page one. Tighten the bolts (12a) lightly, they will be fully tightened during the next step.

Step 3: installing the steering damper

Install the steering damper using:

- Spacer Type 1 (14)
- O-ring (15)
- Steering damper S75 (16)
- Bolt M8x70 Button head (17)

Ensure that the clamp bolt (8a) of the tube clamp is pointing forward. Shove the damper (16), with the knob-end first, through the clamp until the ball joint can be fitted to the fork clamp. Use the spacer (14), O-ring (15) and M8 bolt (17) to fixate the balljoint to the fork clamp 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 M6 clamp bolt (8a) with a torque of approx. 6Nm/53Lbs.In/4.4Lbs.Ft.

Loosen the fork clamp bolts (12a) and check if the damper is level horizontally and aligned to the bike. Once finished, tighten the fork clamp bolts (12a) with a torque of approx. 8Nm/70Lbs.In/5.9Lbs.Ft

Check again 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. Adjust distance X or fork clamp position if necessary to improve.

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