

HYPHERPRO

STEERING DAMPER MOUNTING KIT

for

YAMAHA XJR1200 (SP)

Models 1996 ->

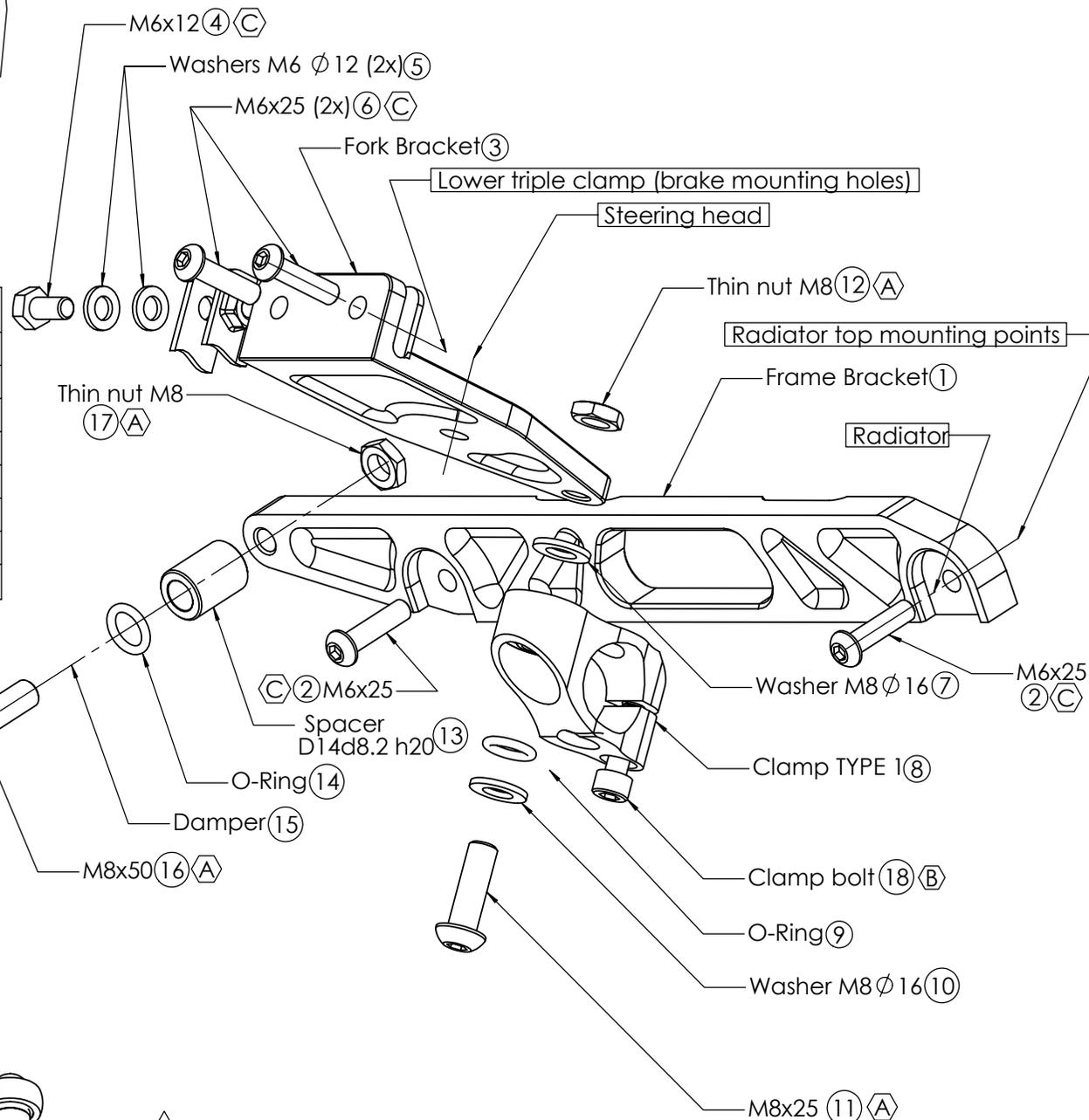
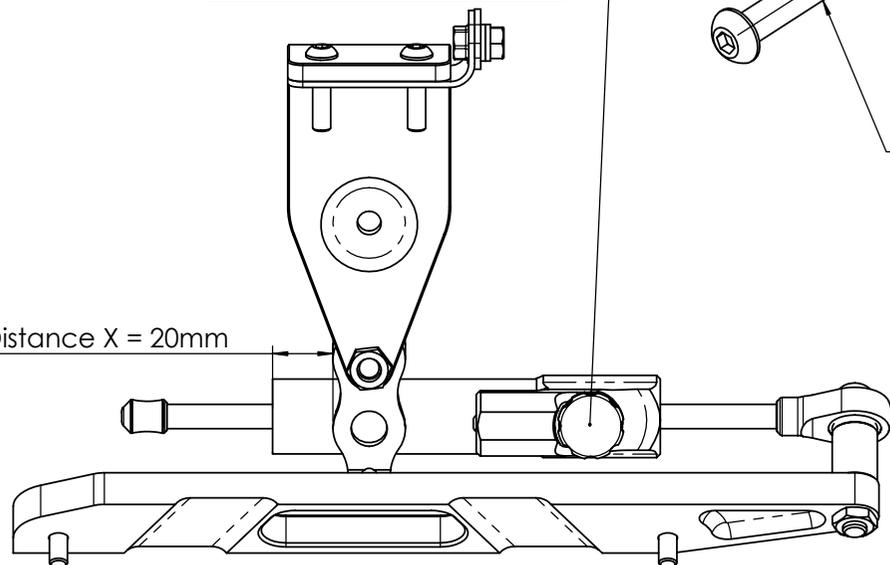
MK-YA12-B002 PART LIST

SD stroke 75	1	Spacer D14 d8.2 h20	1
Tube Clamp TYPE 1	1	Washer M6 ϕ 12	2
O-Ring	2	Washer M8 ϕ 16	2
CNC Fork Bracket	1	Thin nut M8	2
CNC Frame Bracket	1	-	-
M8x25 Button head	1	-	-
M8x50 Button head	1	-	-
M6x25 Button head	4	-	-

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

Distance X = 20mm



1
of 2

- | | | | |
|-----|---|-----|-------------------------------------|
| (A) | 14-17Nm / 124-150Lbs.In / 10.3-12.5Lbs.Ft | (C) | 5-9Nm / 44-80Lbs.In / 4.0-6.4Lbs.Ft |
| (B) | 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-YA12-B002 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 frame bracket

- Frame bracket (1)
- 2x Bolt M6x25 (2)

Remove the 2 standard M6 bolts and washers from the radiator's top mounting points. Install the frame bracket (1), using the 2 supplied M6x25 bolts (2). Place the bracket behind the radiator mounts, directly against the frame. Use all standard rubbers and washers and Tighten the M6x25 bolts with a torque of approx. 5-9Nm/44-80Lbs.In/4.0-6.4Lbs.Ft

Step 2: installing the fork bracket

- Fork bracket (3)
- 2x Washer M6 Ø 12 (5)
- 2x Bolt M6x25 (6)

Loosen and remove the brake hose clamp bolt (4), place 2 washers (5) underneath it and tighten again in original position. Loosen and remove the 2 standard bolts in the front side of the lower triple clamp. Place the fork bracket (3) on top of the brake hose clamp and the other parts and use the supplied M6x25 bolts (6). Tighten with a torque of approx. 5-9Nm/44-80Lbs.In/4-6.4Lbs.Ft.

Step 3: installing the tube clamp

- 2x Washer M8 Ø 16 (7 & 10)
- TubeClamp TYPE 1 (8)
- 1x O-Ring (9)
- Bolt M8x25 (11)
- Thin nut M8 (12)

Put the assembly together as shown on page 1: On the fork bracket (3), place the washers (7 & 10), the O-ring (9) and the tube clamp (8) inline on top of the M8 hole and put the M8 bolt (11) through all the parts and screw it into the thread of the bracket. Tighten the bolt with a torque of approx. 14-17Nm/124-150Lbs.In/10.3-12.5Lbs.Ft. Place the nut (12) on the bottom of the bolt and tighten with a torque of approx. 14-17Nm/124-150Lbs.In/10.3-12.5Lbs.Ft.

Step 4: installing the steering damper

- Spacer D14d8.2 h20 (13)
- 1x O-ring (14)
- Steering damper (15)
- Bolt M8x50 button head (16)
- Thin nut M8 (17)

Ensure that the clamp bolt of the Tube clamp is pointing backward. Shove the damper (15), with the end knob-side first, through the clamp until the ball joint can be fitted to the frame bracket. Use the spacer (13), O-ring (14) and M8 bolt (16) to fixate the balljoint to the frame bracket and tighten with a torque of approx. 14-17Nm/124-150Lbs.In/10.3-12.5Lbs.Ft. Place the nut (17) on the bottom of the bolt 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" (=20mm) stated on page 1 is reached, 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. forkleg) 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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