

# HYPHERPRO

## STEERING DAMPER MOUNTING KIT

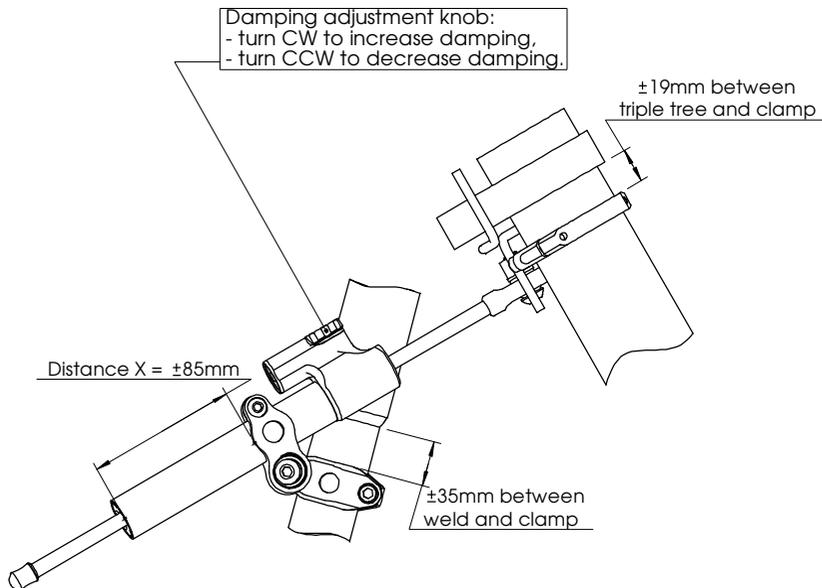
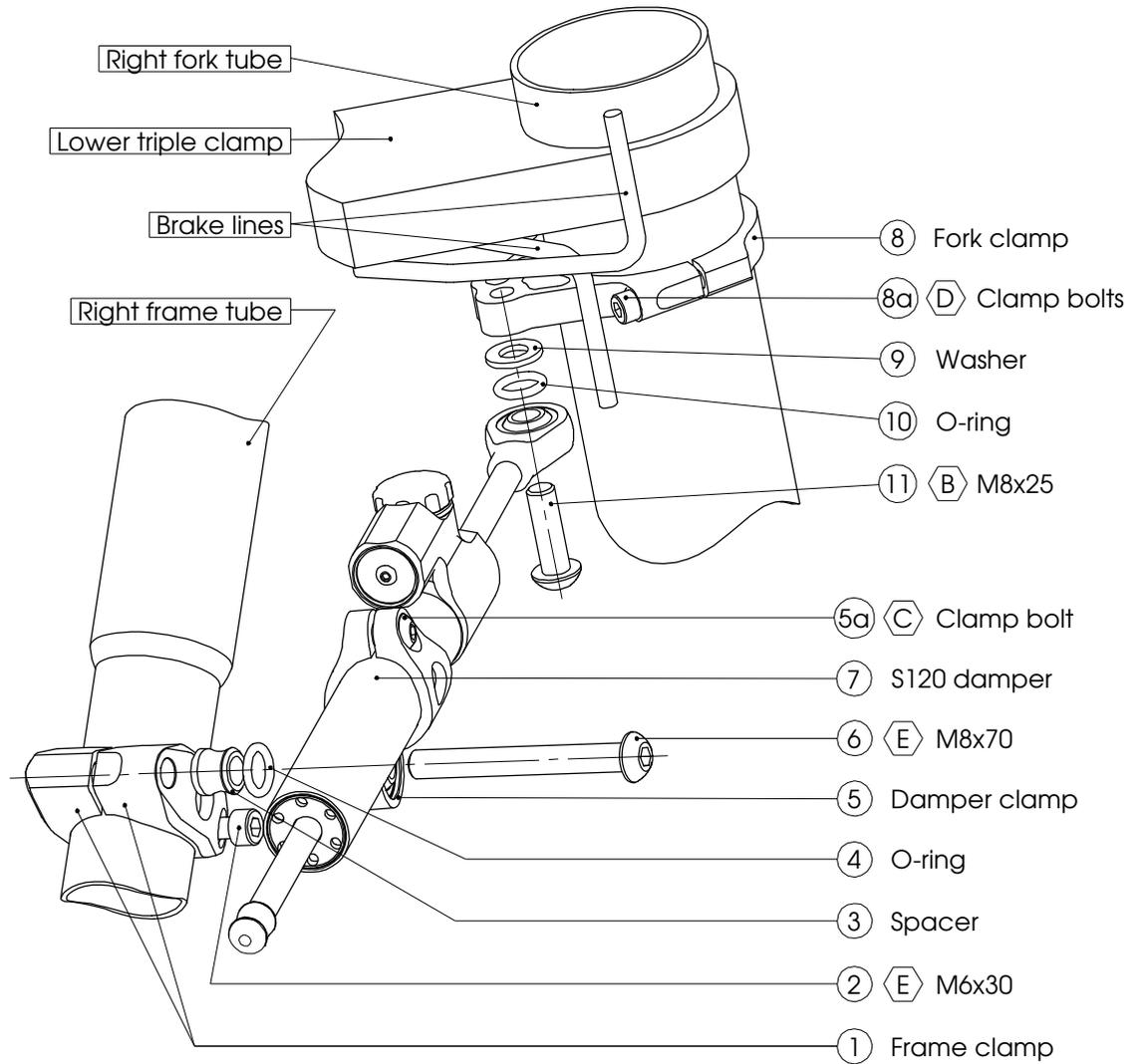
for

**Harley Davidson XR1200  
Model 2008>**

### MK-HD12-S003 PART LIST

SD stroke 120	1	Washer M8 $\phi$ 16	1
Fork clamp $\phi$ 56 (FC0560)	1	O-ring	2
Damper clamp (DB018235)	1	-	-
Frame clamp $\phi$ 35 (FB0014)	1	-	-
Spacer type 1 (SP0001)	1	-	-
M6x30	1	-	-
M8x25 Button head	1	-	-
M8x70 Button head	1	-	-

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* TORQUES	
A: 5-9Nm / 44-80Lbs.In / 4.0-6.4Lbs.Ft	D: 8Nm / 70Lbs.In / 5.9Lbs.Ft
B: 14-17Nm / 124-150Lbs.In / 10.3-12.5Lbs.Ft	E: 10Nm / 88Lbs.In / 7.4Lbs.Ft
C: 6Nm / 53Lbs.In / 4.4Lbs.Ft	F: Factory torque (see owners manual)

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## STEERING DAMPER MOUNTING KIT

for

### Harley Davidson XR1200 Model 2008>

## MK-HD12-S003 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 vehicel 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 contactcleaner or another degreaser, unless otherwise stated.
- Be carefull 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 untill steering movent 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, untill 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: install the frame- and damper clamp**

Install the frame clamp assembly using:

- Frame clamp (1)
- Bolt M6x30 (2)
- Spacer Type 1 (3)
- 1x O-ring (4)
- Damper Clamp Type 1 (5)
- Bolt M8x70 (6)

Install the Frame clamp parts (1) around the right vertical frame tube, approximately 35mm below the weld. Make sure it is orientated correctly and use the M6x30 bolt (2) in the smaller hole.

Fit the spacer (3), O-ring (4) and damper clamp (5) to the bigger hole, using the M8x70 bolt (6).

Tighten the bolts (2) and (6) evenly with a torque of approx. 10Nm/88Lbs.In/7.4Lbs.Ft.

### **Step 2: install the fork clamp**

Install the fork clamp using:

- Fork clamp (8)

Disassemble the fork clamp. Re-assemble the parts around the right fork leg as shown on page 1, approx.19mm underneath the lower triple tree. Make sure it is aligned properly and there is no contact with the brake lines tighten the clamp bolts (8a) with a torque of approx. 8Nm/70Lbs.In/5.9Lbs.Ft

### **Step 3: install the steering damper**

Install the steering damper using:

- Steering damper, stroke 120 (7)
- Washer M8  $\varnothing$  16 (9)
- 1x O-ring (10)
- Bolt M8x25 button head (11)

Ensure that the clamp bolt of the tube clamp (5) is pointing upward. Shove the steering damper (7), with the knob-end first, through the clamp (5) untill the ball-joint can be fitted to bottom of the fork-clamp (8). Use the washer (9), O-ring (10) and M8 bolt (11) to fit the ball-joint to the most outer hole and tighten with a torque of approx. 14-17Nm/124-150Lbs.In/10.3-12.5Lbs.Ft.

Position the damper tube untill the distance "X" stated on page 1 is reached, then tighten the M6 clamp bolt (5a) with a torque of approx. 6Nm/53Lbs.In/4.4Lbs.Ft. Check if the damper is level aligned properly to the bike. Check if the damper does not touch anything (e.g. front cylinder) when steering from left to right. Check if the bike can make it's full steering angle from left to right.

Adjust the position and angle of the clamps if necessary, but do not forget to re-tighten the parts!