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Installation Instructions for Kinetic Structures Engine Mounts

Applicability:
Harley-Davidson® DYNA- FXD, FLD, Years 1991 – 2017

Kinetic Structures part number, A1014, is a direct replacement for Harley-Davidson® front engine mount 47583-90B. It is identified with an "F" on the Core, between the two threaded holes.

Kinetic Structures part number, A1015, is a direct replacement for Harley-Davidson® rear engine mount 47564-90B/99. It is identified with an "R" on the Core, between the two threaded holes.

An illustrated parts breakdown of the mounting system is shown in Figure 2. This is typical for any of the applicable Harley Davidson® models and years.

Important Installation Notes

1. When installing the front and rear mounts at the same time, always install the **rear** mount first.

2. The engine/transmission assembly tends to shift slightly rearward over time. When the rear mount is removed, there is generally less than sufficient space to easily install a new rear mount. It is highly recommended to shift the engine/transmission assembly forward (approximately 1/8 inch) to permit easier installation of the rear mount. This can be achieved as follows:
   a. Raise and support the rear wheel off the ground.
   b. Remove the front mount. See instructions.
   c. Remove the rear mount. See instructions.
   d. Using a pry bar or other suitable tool, pry, push or pull the engine/ transmission forward approximately 1/8 inch.

Caution: Use suitable jacks and jack stands to fully support the bike frame, engine, and transmission when performing the above.

3. Install the rear mount per the instruction herein.

Important Note: When installing the two top bolts through the mount and transmission holes, never torque or attempt to thread them through. If the fit is tight, lightly tap them through or repeat Step 2 for more clearance.

Important Note: DO NOT USE STAINLESS STEEL BOLTS with Kinetic Structures mounts.

Best Practice for Optimum Performance

The front and rear mounts will perform best when they are installed with little or no installation forces acting on the wire mesh cushions. This can be achieved by following these procedures during the installation process.

1. Always tighten the two frame bolts first. Leave the two top bolts slightly loose until this procedure is completed.

2. When the mounts are fully installed (frame bolts tight, top bolts slightly loose), lower the bike and engine off the jacks. Let the engine and bike rest in its natural position.

3. With the bike in neutral, start the engine and let it run for about 1 minute. Rev the engine several times. Let the weight of the engine and transmission settle onto the mounts in their natural position.

4. Tighten the two top bolts on the rear mount.

5. Raise the front of the engine so the engine weight is not supported on the front mount. Remove the two frame bolts from the front mount. Check the gap between the mount and frame. Shim per the procedure herein.

6.Tighten the two frame bolts. Leave the two top bolts slightly loose. Lower the engine off the jack. Let the engine and bike rest in its natural position.

7. Repeat Step 3.

8. Tighten the two top bolts on the front mount.

Installation Instructions

Front Engine Mount

1) Remove the existing front engine mount

Removal and replacement of the front engine mount is well documented in HD service manuals or on YouTube videos. Kinetic Structures will not re-publish these existing instructions. Please follow existing procedures. Any deviations or exceptions from existing procedures will be documented in this installation guide.

Completely remove the front engine mount.

2) Installation of Kinetic Structures front engine mount, A1014

Examine and reuse existing hardware such as nuts, bolts and washers, when appropriate. DO NOT USE STAINLESS STEEL BOLTS.

Install the front engine mount using the same procedures and torques as the OEM rubber mount.

Note: On many motorcycles, there is a gap between the front mount and the frame. Use the shims provided to fill the gap. Use either none, 1 or 2 shims. Any remaining gap beyond 2 shims can be filled with standard washers. See Figure 1.

Note: Use thread locking compound on all fasteners.

Reference: OEM recommended torque is 22-27 ft-lbs.

Rear Engine Mount

1) Remove the existing rear engine mount

Removal and replacement of the rear engine mount is well documented in HD service manuals or on YouTube videos. Kinetic Structures will not re-publish these existing instructions. Please follow existing procedures. Any deviations or exceptions from existing procedures will be documented in this installation guide.

Completely remove the rear engine mount.

2) Installation of Kinetic Structures rear engine mount, A1015

Examine and reuse existing hardware such as nuts, bolts and washers, when appropriate. DO NOT USE STAINLESS STEEL BOLTS.

Install the rear engine mount using the same procedures and torques as the OEM rubber mount.

Note: Use thread locking compound on all fasteners.

Reference: OEM recommended torque is 22-27 ft-lbs.

Shimming

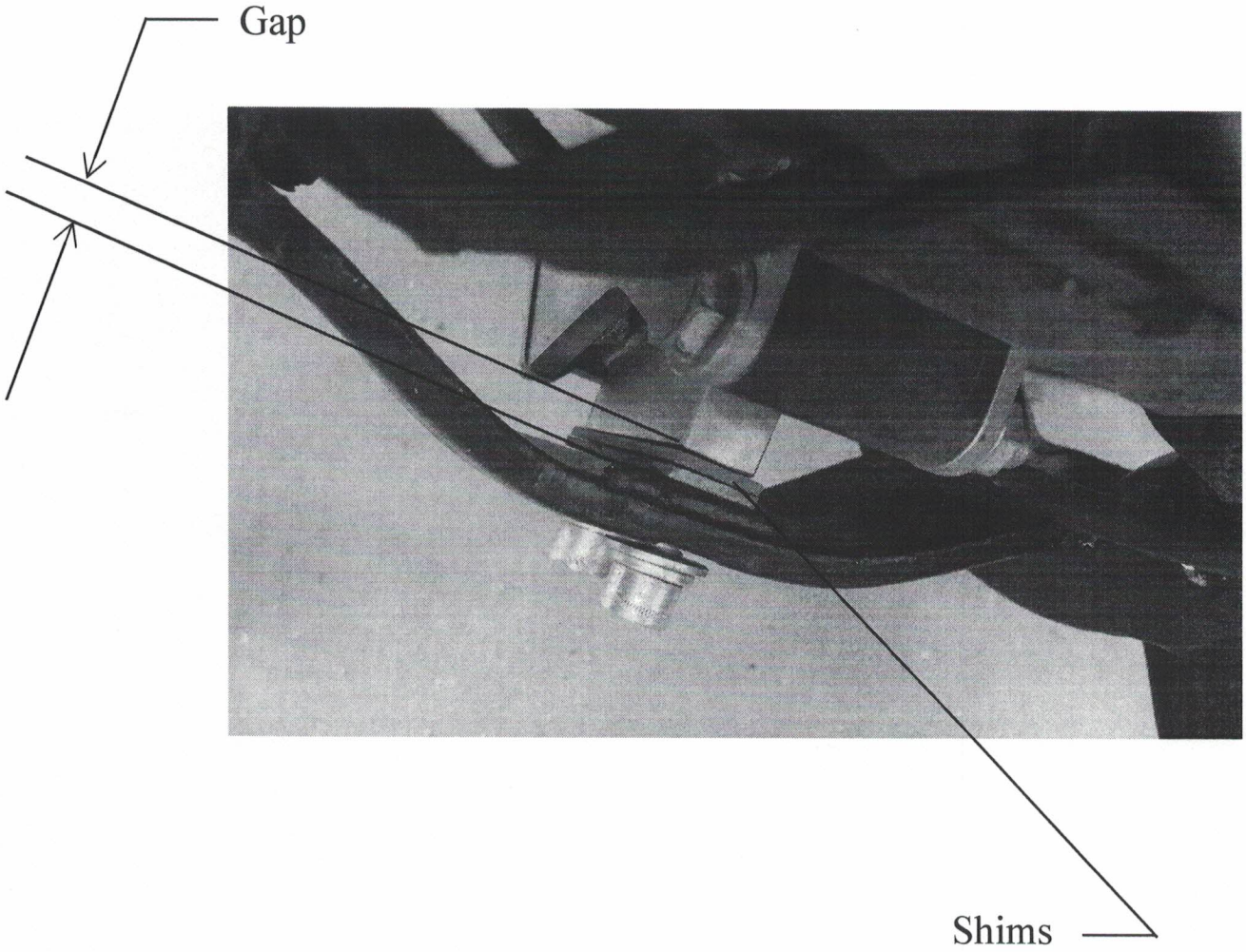

Figure 1

Typical HD Illustrated Parts Breakdown

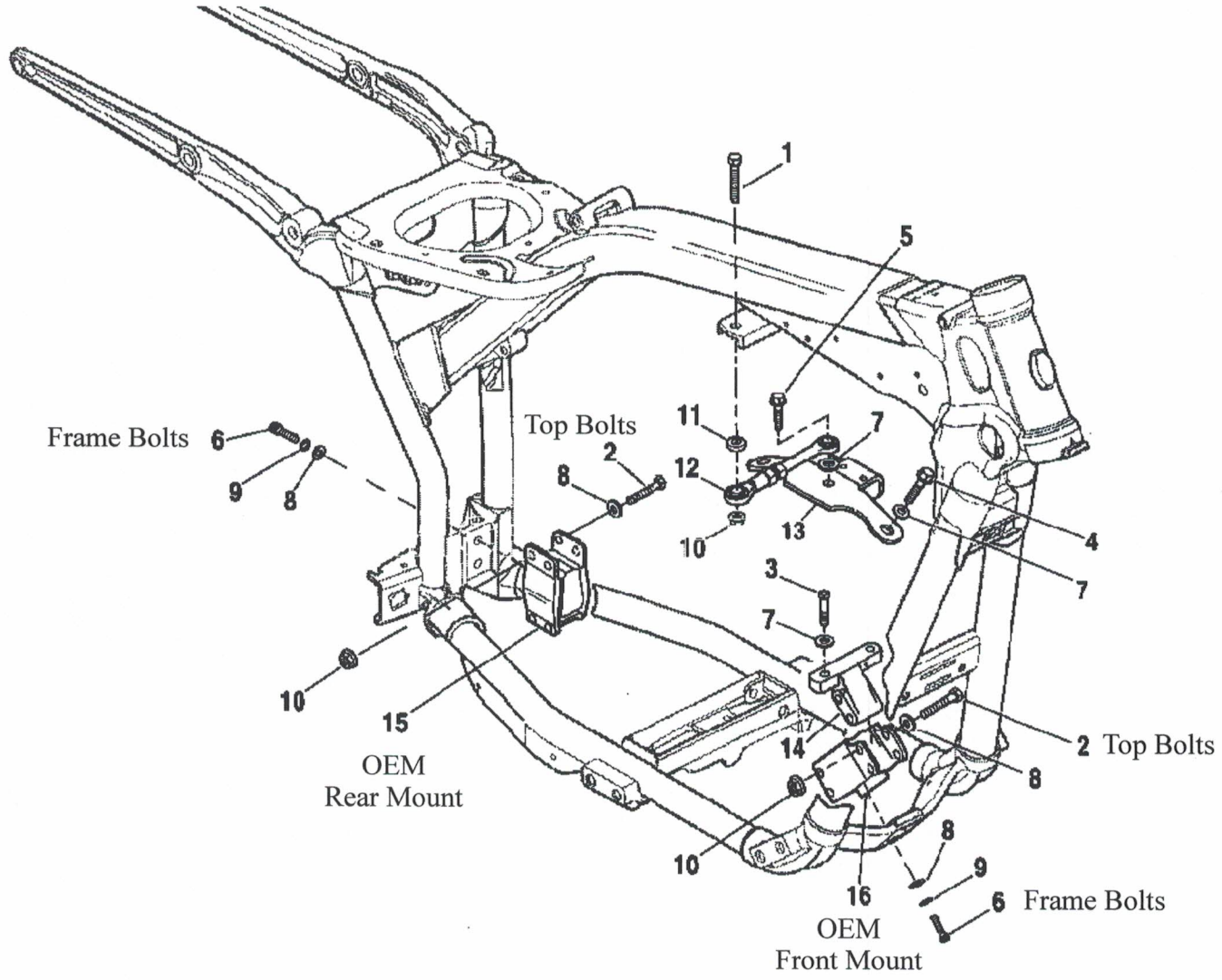

Figure 2