IMPORTANT INFORMATION
This Jagg oil cooler must be installed following these instructions. Read the easy-to-follow instructions fully prior to starting the installation of the oil cooler kit. Correct installation is the only way to ensure proper operation of the oil cooler kit.

<table>
<thead>
<tr>
<th>QTY.</th>
<th>KIT CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jagg 6-row LowMount oil cooler with attached mounting bracket</td>
</tr>
<tr>
<td>1</td>
<td>Jagg 4550 oil filter adapter with thermostat</td>
</tr>
<tr>
<td>1.5 ft</td>
<td>Jagg 30R7spec black oil hose</td>
</tr>
<tr>
<td>4</td>
<td>7/8” black worm-drive hose clamps</td>
</tr>
<tr>
<td>1</td>
<td>Bolts: 3/8”-16 x 2”10-24 x 1-3/8”, black</td>
</tr>
<tr>
<td>2</td>
<td>Spacers: 3/8” spacers/washers</td>
</tr>
</tbody>
</table>

TOOLS NEEDED
- Strap wrench or oil filter removal tool
- Phillips head screwdriver
- Hose cutter or sharp knife
- 1” deep-well socket
- 9/16” deep well socket or open end wrench

BASIC SYSTEM INSTALLATION GUIDELINES
- Route oil hose to avoid any hot surfaces or moving parts. Ensure all bends are smooth, with no sharp turns that may restrict oil supply to the engine.
- Oil cooler is designed to mount as detailed in these instructions. Any modifications may lead to decreased performance or item failure.
- When cutting oil hoses, always use a sharp knife, single-edge razor blade, or hose cutter. Make a straight, clean cut at 90° to the oil hose. This will ensure a proper fit where the oil hose attaches to its connection.
- Over tightening hose clamps may cause oil leaks.

CAUTION: ALLOW MOTORCYCLE TO COOL BEFORE ATTEMPTING INSTALLATION OR RISK SERIOUS INJURY.
Part 1: Oil cooler mounting
1. Remove stock 3/8” x 1-1/2” bolt and nut from frame Heim joint. Do not discard nut (figure 1).

2. Insert 3/8” x 2” bolt (included) through clutch cable mounting bracket hole.
3. Insert (1) 3/8” spacer/washer (included) onto the 3/8” x 2” bolt.
4. Insert bolt through hole in oil cooler bracket and then through frame joint. Another spacer is included and may be used at the installer’s discretion to allow increased spacing of clutch cable (figure 2).

   NOTE: If there is concern for oil filter clearance during high-performance stopping and/or acceleration, the 3/8” x 2” bolt may be installed with the head in the rear of the joint at the discretion of the installer.

5. Reinstall nut from step 1.

Part 2: Oil filter adapter mounting
6. Remove spin-on oil filter. Refer to motorcycle owner’s manual for proper procedure changing oil and oil filter if needed. Clean area thoroughly.
7. Refer to Jagg oil filter adapter instructions (included) to install oil filter adapter, and then proceed to Part 3 of these instructions.
   SERVICE NOTE: Inspect adapter and screws for tightness at each oil filter change.

Part 3: Hose installation
8. Cut the provided oil hose into two equal lengths. Install 7/8” black hose clamps loosely onto the ends of the hose before pushing hoses onto the oil cooler’s barbed fittings. A touch of oil on the oil cooler’s barbed fittings allows the hoses to push on easily.
9. Push hose onto the oil cooler’s barbed fittings until the hose bottoms out.
10. Secure hose over the fittings with the 7/8” black hose clamps included in the kit so the hose cannot pull over the barb on the fitting. The flow orientation of the oil cooler is non-directional, so either hose fitting will allow proper flow as an inlet or an outlet.
11. Measure, cut, route, and attach the oil hoses to the oil filter adapter. Secure hose over the fittings using the 7/8” black hose clamps onto the oil filter adapter inlet and outlet as detailed in the previous steps. Take care to make gentle bends in oil hose routing from oil cooler to adapter. Sharp bends may collapse under heat load and cause restriction to oil flow.

   NOTE: It may be necessary to rotate hose clamps to ensure hose clamps do not interfere with oil filter installation.
12. Install oil filter onto the threaded stem of the oil filter adapter. Tighten per factory/service manual recommendations.
13. Refill the engine with the correct amount and type of oil per factory/service manual recommendations. The Jagg 6-row oil cooler included will add approximately 6 fl oz to the oiling system volume.
14. Start the engine and let it idle. Check all oil hose connections for any leakage and tighten hose clamps if oil seepage is discovered.

   NOTE: Over-tightened hose clamps may cut into oil lines and cause oil leaks.

Part 4: Final inspection
15. After installation completion and engine warm-up, shut the engine down and recheck the oil level. Correct the oil level if necessary, but do not over-fill.
INSTALLATION INSTRUCTIONS
Jagg HyperFlow Oil Filter Adapter
Part # 4550

Please read these instructions completely before beginning installation.

**KIT CONTENTS**

<table>
<thead>
<tr>
<th>QTY.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sandwich adapter plate with sūsa ProLine M22x1.5 ports</td>
</tr>
<tr>
<td>1</td>
<td>Thermostatic oil valve (pre-assembled into sandwich adapter plate)</td>
</tr>
<tr>
<td>1</td>
<td>Extension screw for oil filter stem, threaded for 3/4”-16 spin-on oil filters</td>
</tr>
<tr>
<td>1</td>
<td>O-ring for oil filter mount surface</td>
</tr>
<tr>
<td>2</td>
<td>sūsa ProLine M22x1.5 adapter fittings, (part # 22-M22PL06-90) with O-rings</td>
</tr>
</tbody>
</table>

**FITMENT**
H-D XL Sportsters, H-D Big Twin carbureted EVO applications with front-mount spin-on oil filters, and Buells with front-mount spin-on filters.

**INSTALLATION**
This sandwich adapter is designed to allow access of oil supply for the plumbing of an external oil cooler. The built-in thermostatic oil valve allows oil to by-pass the oil cooler until the vehicle reaches operating temperature.

**Part 1: Vehicle preparation**
1. Prepare the vehicle for installation: allow to cool completely. Remove factory engine oil filter and clean the oil filter landing of oil and debris.

**Part 2: Adapter fitting installation**
2. Lubricate threads and O-rings on M22x1.5 adapter fittings with oil and thread into sandwich adapter plate to hand-tight.
3. Tighten fittings with wrench until metal surfaces meet or to 29.5 lb-ft (40 Nm).

**Part 3: Sandwich adapter installation**
4. Lubricate large O-ring with oil and insert into O-ring groove on rear of sandwich adapter plate.
5. Match sandwich adapter plate onto engine’s oil filter landing.
6. Insert extension screw through sandwich adapter plate center and thread onto engine oil filter stem.
7. Tighten extension screw to 20 lb-ft (27.1 Nm) or to factory specifications of engine oil filter.
8. Ensure adequate clearance of sandwich adapter plate and adapter fittings around any moving parts, exhaust systems, or sharp edges that could cause hose or component failure or interference.
9. Install engine oil filter to factory specifications.
10. Vehicle is now ready for plumbing of external oil cooler.
11. Check extension screw for proper tightness and re-torque if needed, any time an oil filter is removed from the sandwich adapter.

**ACCESSORY PARTS AVAILABLE**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-ring service kit: two replacement O-rings for part # 4550 oil filter adapter</td>
<td>SK4550</td>
</tr>
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