



## INSTALLATION INSTRUCTIONS

Part # 780-1700

**Please read these instructions completely before beginning installation.**

KIT CONTENTS	
Qty.	Description
1	Jagg Deluxe DiamondCut oil cooler
2 pair	Jagg frame clamps (1 1/4" and 1 3/8")
2 sets	Bolt + nut set for frame clamps: 5/16"-18 x 1"
1	Jagg 4550 HyperFlow oil filter adapter
2	M22 to PL06 hose-ends, 90°
1	NPT 1/8" pipe plug
1	3/4"-16 extension screw
1	Buna X-profile O-ring for oil filter adapter
4	7/8" black worm drive hose clamps
3ft	Jagg 30R7spec black oil hose

TOOLS REQUIRED
Strap wrench or oil filter removal tool
3/8" ratchet & ratchet extension
7/8" deep well socket
1/8" hex key tool
Adjustable wrench
Hose cutters or sharp knife
1/4" nut driver (for hose clamps)

### Operation Summary

The Jagg #4550 is an oil filter adapter that is used to access the oil supply for the installation of a Jagg oil cooler on Harley-Davidson Sportster models through 2022. Fitment is **not** intended for use on 2021+ Sportster S liquid-cooled models. Engineered for optimal balance between performance and flow, the 4550 HyperFlow sandwich adapter operates with a normally open, thermostatically actuated by-pass valve. This allows oil to recirculate through the filter and back to the motor until it has reached a standard operating temperature. Once the oil reaches 180° F, the by-pass will close, sending oil through the oil cooler to then deliver cool, clean oil back to the engine.



### 1. Pre-Installation

- Remove spin-on oil filter and clean the filter mounting surface thoroughly.

### 2. Prepare oil filter adapter for installation

**CAUTION:** If PTFE tape is used, more than two turns of tape may cause distortion or cracking of the port.

- Apply Teflon pipe sealant (e.g., Loctite 592) to the male pipe threads of the NPT plug. If PTFE tape is used, it should be wrapped 1-1/2 to 2 turns in clockwise direction when viewed from the pipe thread end.
- Screw the NPT plugs into the female port on the side of the oil filter adapter to finger tight.
- Wrench tighten the plugs 2-3 turns-from-finger-tight (T.F.F.T.).
- Apply a few drops of oil to the brown o-ring at the base of the Male M22 threads of the hose-ends.
- Install the hose-ends into the oil filter adapter.
- Put a few drops of oil into the O-ring channel on the back side of the oil filter adapter and place the O-ring into the channel.
- Set aside oil filter adapter until it is needed.

### 3. Install the oil cooler

- Install the frame tube mounting clamps on the oil filter side of the bike so that the hexagonal screw hole faces towards the rear tire.
- Mount the oil cooler to the frame tube mounting clamps with the nipples facing down.
- Tighten the bolts snugly.

#### 4. Install the oil filter adapter

- Oil the O-ring that is in the oil filter adapter and place the adapter onto the oil filter landing plate.
- Depending on application and/or preference, the hose-end fittings can be oriented either so that they are above or below the oil filter.
- Tighten the oil filter extension screw so that the oil filter adapter is secured to the oil filter landing plate.

(photo)

**Thank you for choosing a Jagg oil cooler!**

(photo)

**Warning:** Installation should only be attempted by those with mechanical skills and experience working on vehicles. Standard safety precautions consistent with the tools and dangers of automotive work should be followed to protect from injury. Specifically, wear protective equipment, take care to stabilize the vehicle on a level surface or supportive lift, and allow vehicle to cool before attempting installation; failure to comply can result in injury and/or damage to equipment.

#### 5. Install the oil hoses

- Cut two pieces of hose to desired lengths.
- Put hose clamps on the end of the hoses before pushing onto barb fittings.
- Tighten hose clamps until they slightly compress hose against fittings.
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#### 6. Reinstall a clean oil filter

- Put a few drops of oil onto the O-ring of the oil filter.
- Screw the oil filter back on to oil filter adapter.

#### 7. Check for leaks

- Clean off any residual oil, start your bike, and allow it to reach operating temperature to ensure that all new fittings are properly sealed.
- Once you are sure that all components are soundly sealed and you have detected no leaks, resume normal riding.