



OilCoolers

Part # FP2400

Fan Assisted 10-row Low Mount Touring Oil Cooler Kit Instructions

Designed for model year 2009 and newer Harley-Davidson FLH Motorcycles with Twin-Cam Motor*.

***NOTE: Fitment requires oil filter adapter (SOLD SEPARATELY) to access oil supply to install oil cooler**

oil cooler (1)	Kit Contents (quantity of each):	high performance fan (1)	bracket assembly (1)
M6x10mm button allen screws	fan thermal switch (1)	3/8" oil hose (2 ft.)	"T" Fitting
7/8" black hose clamp (2)	1/4"-20 hex head bolts		29" wiring harness (1)
zip ties (3)			Instructions

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 INSURE PROPER OPERATION OF THE OIL COOLER KIT.

BASIC SYSTEM INSTALLATION GUIDELINES

- Certain bike models may require the use of additional accessories to complete the installation. Please refer to the Jagg Application Chart to determine if your bike requires additional items to complete installation.
- Route oil hose to avoid any hot surfaces or moving parts. Insure 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 or single-edge razor blade. Make a straight clean cut and at 90° to the oil hose. This will insure a proper fit where the oil hose attaches to its connection.
- Overtightening hose clamps may cause oil leaks.

CAUTION: ALLOW MOTORCYCLE TO COOL BEFORE ATTEMPTING INSTALLATION OR RISK SERIOUS INJURY.

INSTALLATION INSTRUCTIONS

1. Remove oil filter and install Jagg Oil Filter Adapter (sold separately). Refer to oil filter adapter mounting instructions.
2. Install fitting "T" in oil filter adapter to create an access point for fan switch installation. Refer to fitting "T" component installation instructions.
3. Remove cooler from bracket. Retain M6x10mm screws for later use.
4. Remove nuts and washers from voltage regulator mounting bolts and retain for future use.
5. Unfasten regulator wiring from underneath regulator and remove regulator.
6. Insert cooler mounting bracket onto regulator mounting bolts taking care not to pinch electrical wires.
7. Use nuts removed from voltage regulator mounting bolts in step 4 to secure new bracket/fan assembly.
TIP: ON THE RIGHT SIDE (AIR CLEANER SIDE) IT WILL BE NECESSARY TO UNFASTEN REGULATOR WIRING FROM RETAINING CLIPS OR ZIP TIES, REMOVE SOME OF THE LOOM COVER, AND REROUTE WIRING IN ORDER TO GAIN LENGTH AND REFASTEN WIRING TO VOLTAGE REGULATOR.
8. Install fan switch included with kit into the fitting "T" in oil filter adapter.
TIP: USE TEFLON THREAD SEALANT ON PIPE THREADS OF THERMAL SWITCH. TIGHTEN THERMAL SWITCH APPROXIMATELY 2-3 TURNS FROM FINGER TIGHT.
9. Install fan connector onto a prong of the thermal switch.
10. Using fan wire harness supplied in kit, install female disconnect onto a prong of the thermal switch.
11. Route fan wire harness under the right side (air cleaner side) of motorcycle along frame.
12. Locate brake light switch under the frame and remove connector on brake light switch.
13. Install the piggy back dual connector end of fan wire harness on brake light switch.
14. Reinstall brake light switch connector onto exposed prong of piggy back dual connector of fan wire harness.
15. Use zip ties included in kit to secure connected fan wire harness to frame.
16. Install hoses on oil cooler. Secure with 7/8" black hose clamps.
CAUTION: OVERTIGHTENING HOSE CLAMPS CAN CUT INTO OIL LINES AND LEAD TO OIL LEAK. DO NOT OVERTIGHTEN HOSE CLAMPS.
17. Attach oil cooler to mounting bracket with M6x10mm screws removed in step 3. Pull cooler toward right side of bike to allow for clearance of oil hose.
NOTE: USE OF PERMANENT THREAD LOCKER IS RECOMMENDED FOR INSTALLATION OF OIL COOLER/MOUNTING BRACKET SCREWS.
18. Route and attach oil lines to oil filter adapter, installed in step 1, and secure with black hose clamps supplied in oil filter adapter kit.
CAUTION: 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.
19. Re-Install voltage regulator using 1/4"-20 hex head bolts supplied in kit and re-attach regulator wiring that was unfastened during step 5.
21. Install oil filter.
22. Fill bike with oil according to service manual.
23. Start bike and check for leaks.

NOTE: FOR DETAILED INSTALLATION PHOTOGRAPHS PLEASE VISIT www.jagg.com.

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