

# 2000-2017 SOFTAILS Installation Guide

BUDSBIKERPARTSINC.

3302 AIRPORT RD.

HELENA, MT 59601

406.457.2458

info@harleyoilcoolers.com

https://harleyoilcoolers.com/

# **TOOLS REQUIRED:**

DRIP PAN / SOMETHING TO COLLECT
SMALL AMOUNT OF OIL
H.D. OIL FILTER WRENCH 3" OR
FILTER STRAP WRENCH.

SOCKETS / DEEP WELL 7/8"
EXTENSION FOR SOCKET

ALLEN WRENCH 5/32"

9/16" OPEN END WRENCH
2 X11/16" OPEN END WRENCHES
3/8" OPEN END WRENCHES
PLIERS & SNIPS - RECOMMENDED

Step 1

REMOVE THE OIL FILTER WITH A 3" FILTER WRENCH.

MAKE SURE TO CAPTURE THE OIL FROM THE FILTER. \*THERE WILL BE SOME SPILLAGE WHEN YOU REMOVE THE FILTER.

CLEAN UP OIL AS YOU GO.



# STEP 2

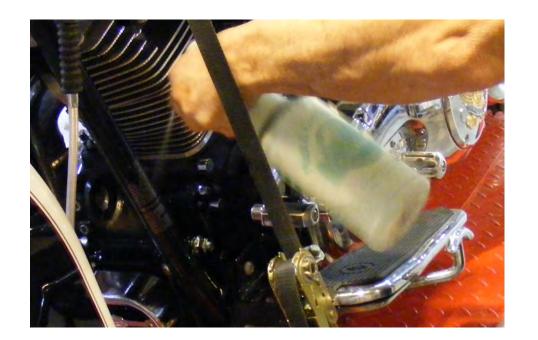
### **REMOVE NUT:**

USE THE 7/8" DEEP WELL SOCKET.
DISCARD NUT, YOU WILL REPLACE
IT WITH THE OIL BUD NUT FROM
ADAPTER.



THE NUT HOLDS 1<sup>ST</sup> HALF OF ADAPTER PLATE.





\*TIP\*

CLEAN UP AFTER YOU RE-MOVE THE OIL FILTER.

IT IS EASIER TO DO IT NOW THEN AFTER YOU INSTALL THE ADAPTER PLATE.



INSERT THE OIL BUD NUT INTO THE INNER ADAPTER HALF.
HOLD UP TO FILTER HOUSING &
INSTALL USING THE 7/8" DEEP
WELL SOCKET RECOMMENDED.

# \*TIP\*

\*IF THERE IS AN OXYGEN SENSOR
ON YOUR BIKE, THE ADAPTER
'CHROME CAP' SHOULD BE
FORWARD OF THE SENSOR\*

THIS IS THE PROPER
WAY TO INSTALL
THE ADAPTER.
DO NOT LOOSE
THE O-RINGS
USE GREASE TO
HOLD O-RINGS
IN PLACE IF
NECESSARY.





WHEN THE
ADAPTER HALF
IS IN PLACE
USE A TORQUEWRENCH &
TIGHTEN TO
40 FOOT POUNDS

\*CHECK THOSE O-RINGS!\*





TAKE THE
LONG HOSE
& ATTACH IT
TO THE REAR
FITTING ON THE OIL
BUD ELEMENT.

\*THE FRONT HAS TWO EXTRUSIONS. THE REAR HAS ONE EXTRUSION.

FINGER TIGHTEN FOR NOW

WHEN YOU
ARE CONFIDENT
THAT YOU HAVE
THREADED THE
HOSE ASSEMBLY
CORRECT.
TIGHTEN WITH
AN 11/16"
WRENCH.
BECAUSE OF THE
LOCATION, TIGHTEN
COMPLETELY NOW.



# BRING THE COOLING ELEMENT UNDER YOUR BIKE



YOU NEED TO REMOVE THE BOLTS THAT HOLD



THERE ARE TWO 3/8" BOLTS & SPACERS PROVIDED

# \* USE THE SPACER IF YOU DO NOT HAVE HIGHWAY BARS.





# THE REAR OF THE ELEMENT HOOKS ON THE LEFT REAR JUST AHEAD OF THE SHOCK MOUNT.



THE FRONT USES 3/8" BOLTS

\_\_\*USE SPACER
(IF NO HIGHWAY
BARS) WASHERS
& BOLT

# STEP 6

WITH THE COOLING ELEMENT IN PLACE

ROUTE THE LONG

**HOSE FROM** 

THE REAR FITTING

ON THE COOLER

**UP TO THE** 

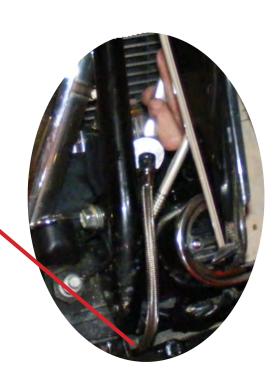
FRONT OF THE

**INNER HALF OF** 

THE ADAPTER



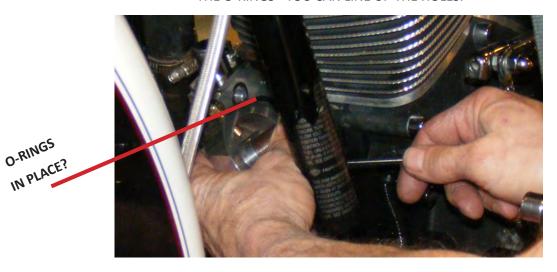




\*TIP

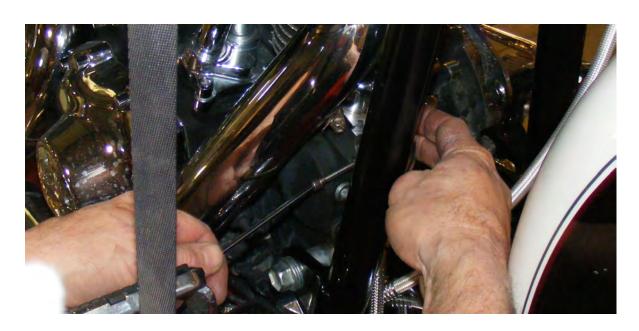
ADJUST FITTINGS SO THERE IS NO STRESS ON HOSE OR FITTINGS

NEXT YOU WILL TAKE THE OUTER HALF OF THE ADAPTOR PLATE. AFTER YOU HAVE CHECKED ON THE O-RINGS - YOU CAN LINE UP THE HOLES.



A LITTLE GREASE
HELPS HOLD THE
O-RINGS IN PLACE

THE SHORT ALLEN BOLTS ARE ON THE BOTTOM,
USE THE LOCK WASHERS.
THE LONG ALLEN BOLTS ARE ON THE TOP.



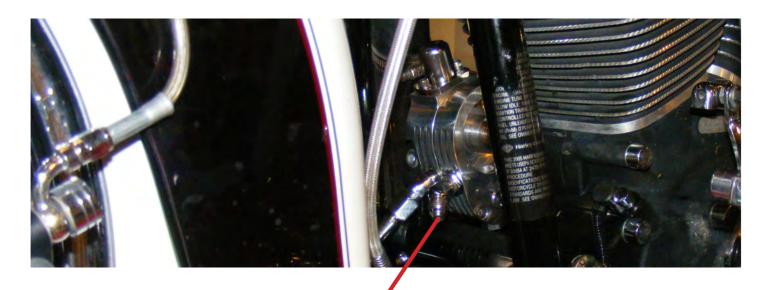
\*ONCE ALL FOUR ALLEN BOLTS ARE LINED UP
YOU WANT TO TIGHTEN THEM ALTERNATING
FROM ALLEN BOLT TO ALLEN BOLT SO THAT
YOU HAVE A UNIFORM TIGHTNESS ON ALL FOUR
ALLEN BOLTS. THIS WILL INSURE A PROPER SEAL.

# YOU ARE ALMOST THERE



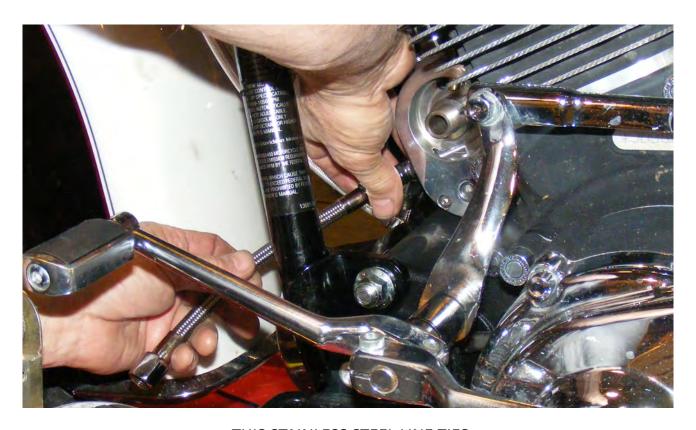
# STEP 7

WHEN YOU ARE SURE THAT YOU
HAVE TIGHTENED UP THE ADAPTER
PLATES CORRECTLY YOU CAN
CONTINUE INSTALLING THE FRONT
STAINLESS STEEL HOSE.



THE FRONT HOSE HOOKS UP HERE ON THE OUTER ADAPTER HALF.

# USE THE SHORT HOSE HERE.



THIS STAINLESS STEEL LINE TIES
INTO THE FRONT FITTING
ON THE COOLING ELEMENT.



ONCE THE HOSE IS IN PLACE,
YOU WILL BE ABLE TO TIGHTEN THE
HOSE LINES.



THE ROUTING
OF THE FRONT
LINE IS AN EASY
DIRECT LINE FROM
FITTING TO FITTING.
(CHECK FOR STRESS
ON LINES & FITTINGS.
ADJUST TO PREVENT
MISALIGNMENT.

THE NEXT PROCESS

IS TO GO AROUND

& CHECK YOUR WORK.

\* ARE THE LINES FREE
FROM ELECTRICAL

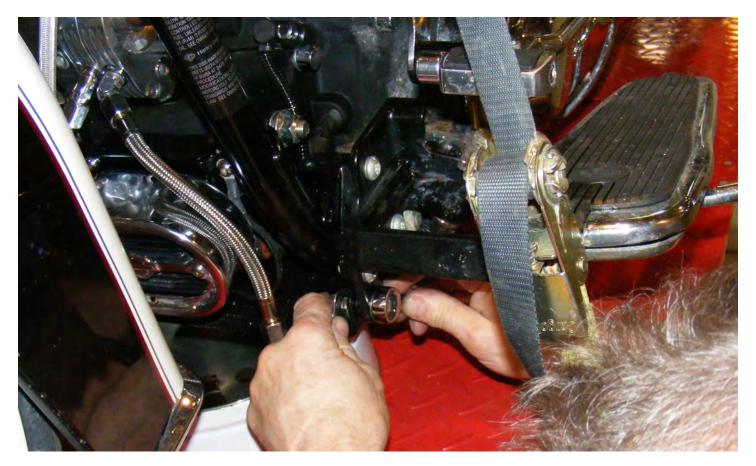
\*YOU KNOW FOR SURE
THE O-RINGS ARE IN?

\*DID YOU USE THE
LOCK WASHERS?

\*DID YOU STRAP THE
LINES IN PLACE?

NEXT YOU WILL TIGHTEN ALL FITTINGS & BOLTS.

# TIGHTEN THE FRONT COOLER MOUNTING BOLTS.



**ZIP TIE THE LINES** 



AGAIN, LOOK & MAKE SURE THAT YOUR
ROUTING IS FREE FROM RUBBING OR ELECTRICAL

# AFTER ALL THE DOUBLE CHECKING



YOU CAN RE-INSTALL THE OIL FILTER.
FOLLOW THE RECOMMENDED METHOD
IN YOUR HARLEY-DAVIDSON MANUAL.





# THANKS FOR PURCHASING THE OIL BUD™ OIL COOLER.

AFTER THE UNIT IS COMPLETELY INSTALLED:

CHECK THAT NO LUBRICANT GETS ONTO THE REAR TIRE, WHEEL OR BRAKES WHEN CHANGING FLUID.

TRACTION CAN BE ADVERSELY AFFECTED,

WHICH COULD RESULT IN LOSS OF CONTROL OF

THE MOTORCYCLE AND DEATH OR SERIOUS INJURY.

AFTER YOU HAVE COMPLETED THE OIL BUD™ INSTALLATION

MAKE SURE YOU HAVE TIGHTENED EVERY CONNECTION

COMPLETELY. REPLACE OIL & CHECK THE LEVEL.

START THE MOTORCYCLE AND CHECK FOR LEAKS.

CHECK OIL & ADD IF NEEDED. BRING MOTORCYCLE

UP TO OPERATING TEMPERATURE.

CHECK OIL AGAIN.

CHECK FOR LEAKS ON ALL OIL BUD™ CONNECTIONS.