

## WIRING DIRECTLY TO THE BATTERY.

- ▶ Cut off the plug from the DUAL COOL. Connect the red wire to the positive (+) terminal of the battery using the in-line fuse and connectors provided.

**WARNING:** Do not connect the red/positive wire to the battery or any other "HOT" source without installing the in-line fuse.

- ▶ Connect the black wire to the negative (-) terminal of your battery. Turn on the switches on the DUAL COOL to test the fans correct operation. Re-install the seat.

**WARNING:** Upon completion of installation be certain that no wires are touching the engine, and that all hardware has been properly tightened.

## INSTALLATION INSTRUCTIONS

# DUAL COOL

THE SMARTEST WAY TO COOL YOUR ENGINES AND YOUR THIGHS

## INSTALLATION ON THE EXISTING HARLEY HORN MOUNT BRACKET



- ▶ Remove your seat. On most Harley's there is a screw at the rear of the seat. Remove the screw and pull the seat towards the rear to release the front clip.
- ▶ Remove the chrome acorn nut and washer on the chrome Harley horn bracket. Disconnect the two horn wires. Put this assembly aside for now.
- ▶ Unscrew the Harley Rubber Vibration Damper. **NOTE:** Some of these rubber dampers are difficult to remove because LockTite has been applied to the threads from the factory. (Heat loosens LockTite) Don't worry if you destroy this rubber damper trying to get it off, because you will not re-use this part.

**NOTE:** A large curved jaw vise grip, or large channel lock pliers, is the recommended tool to remove the Harley rubber damper. At times, only a quality steel chisel and stout hammer will get the bolt to loosen so the tool of your choice, can finish the removal. Removing the two bolts that fasten this bracket to your heads will make this task easier to work on, by placing the horn bracket in a bench vise.

- ▶ Locate the new heavy duty rubber vibration damper supplied in your DUAL COOL box. Install this new rubber vibration damper in the now empty threaded 5/16" hole of the bracket. Apply red Locktite to the stud that is being screwed into the horn bracket. After you have screwed the vibration damper with the maximum force generated by your two hands, place your plier as close to the bracket as possible so you will be squeezing the rear steel disc and not just the center rubber.

**Do not tighten the rubber vibration damper by the rubber disc alone. Do not over-tighten by twisting the rubber excessively. Future failure could be the result. Do not apply Locktite to the front threads of the new vibration damper.**

**NOTE:** It is easier to assemble the DUAL COOL, horn/cover, and Harley chrome horn mount bracket assembly on a table.

- ▶ Remove the two 1/4" bolts that fasten the horn to the Harley chrome bracket, You will not re-use these bolts.
- ▶ Sandwich the DUAL COOL main frame between the Harley chrome horn bracket and the horn cover. Assemble the parts in this order, from the rear to the front. 1. New stiffener bracket supplied with your DUAL COOL. 2. Harley chrome horn mount bracket. 3. DUAL COOL. 4. Horn cover.

- ▶ Bolt the four parts together, using the new 1/4" X 5/8" bolts supplied, leave the bolts finger tight until you look at the front of the assembled unit and check for equal spacing of the horn between the Fan enclosures.
- ▶ Also check that the Harley chrome horn mounting bracket is pointing straight up. When you are pleased with the alignment of the four parts, tighten the two 1/4 inch bolts securely.
- ▶ Install the completed assembly to the new vibration damper previously installed. Re-install the chrome washer and acorn nut. **NOTE:** You can install the cooling fans with the lit switches in the top or bottom position.
- ▶ Using the existing Harley wire clamp for the horn wires, insert both the horn wire harness and the DUAL COOL wire harness into the same holding clamp. Reconnect the horn wires.
- ▶ Run the DUAL COOL wire harness a desired route to end up under your seat, securing the harness with the included wire ties.

**Make sure the wire harness is not touching the engine or too close to the engine that could cause melting or short circuit the wires. If you are hooking the power source to the battery, use the 15 Amp inline fuse and electrical terminals provided. Also make sure the harness will not be crushed when you re- install the seat.**

### **TOURING BIKES WITH AN ACCESSORY SWITCH ON THE DASH**

- ▶ Remove the seat and find the accessory plug included with your bike. It will be located tucked down a couple of inches at the front of the battery. Remove the rubber plug.
- ▶ Route the DUAL COOL harness up under the gas tank and secure the harness to existing wires with the included wire ties, or you can use the included self stick attachments, and run the plug to a position under the seat.

**Make sure the wire harness is not touching the engine or too close to the engine that could cause melting or short circuit the wires. Also make sure the harness will not be crushed when you re-install the seat.**

- ▶ Push the wiring plug from the DUAL COOL harness into the plug you located from your accessory switch.
- ▶ Turn on the ignition and then your accessory switch to make sure the fans start. Re-install the seat