

## Audio Oil Pressure Alert Relay Installation Instructions

For installing the relay included in all 12v Sumthing™ kits or with the relay purchased separately.

**Important:** Read all Instructions before installing this part. This part should only be installed on motorcycles with properly working charging systems.

**Safety:** Installation should only be done by a qualified mechanic. Follow all safety guidelines and regulations stated by motorcycle manufacturer. **DO NOT** attempt installation while engine is hot. These parts heat up during operation. Allow adequate cool down time after engine has been running.

**Parts List:** (1) Oil Pressure – Audio Alert Relay  
24" wire with diode and eyelet  
Approximately 3 feet of 18 gauge auto wire

**The audio oil pressure alert relay has two important functions:**

**Function 1-** To provide extra protection in addition to the oil light by sounding an audio alert on loss of oil pressure. This audio alert will sound whenever the oil light is lit for more than the time set by dial T1 on the relay. Once activated, the alarm will sound for a brief period set by dial T2. The audio alert relay is pre-set at 30 seconds on dial T1 and 0.5 sec on dial T2. This allows sufficient time to establish oil pressure after engine is started, and a short run time on the horn.

**Function 2-** To alert the rider whenever the ignition switch is left on inadvertently after shutting down the engine, to prevent drain on the battery.

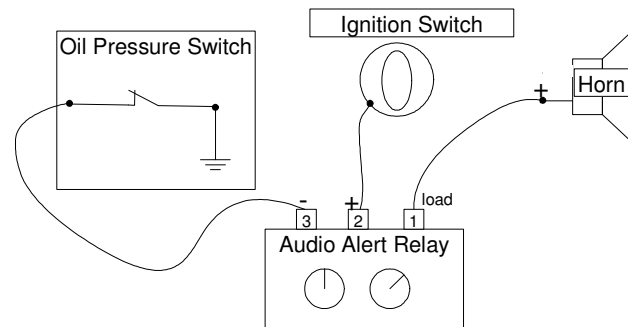
**IMPORTANT:** Whenever there is a 30 second delay between energizing the ignition and starting the engine, this audio alarm will sound. This feature that can be used to periodically test the system, similar to the way the oil light remains on until the engine is started and oil pressure is established. **Whenever this prestart alarm occurs, turn the ignition switch off and back on to reset the timer. Restart the engine within the 30-second (T1) window.**

**Step 1) Wire Connection:** Using 18-gauge automotive wire, connect the audio alert relay as shown in the Wiring Diagram - Figure 1.

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- Connect the supplied wire from #3 terminal on the audio alert relay to the oil pressure switch post.  
**Note:** The supplied wire is not reversible. The eyelet end must hook to the oil pressure switch.
- Connect a wire from #2 terminal on the audio alert relay to the ignition switch post that receives power when the ignition switch is first turned on.
- Connect a wire from #1 terminal on relay to the positive side of existing horn, or alternate sound device.
- **Note:** The audio alert relay uses the oil pressure switch as its ground. On most motorcycles, this audio alert relay can be installed easily under the dash.

Figure 1- Wiring Diagram



**Caution:** Make sure all connections are insulated away from potential grounds. Do not disconnect any existing wire.

**Step 2) Testing:** Turn ignition switch on and ensure oil pressure light is on. Leave ignition switch on. Wait 30 sec (T1) and ensure the audio alarm sounds for ½ second (T2). If the electrical test is successful, proceed to Step 3. If not, you may have to use a pezieo alert in place of the horn. (Which is available at most Radio Shack stores.) If audio alert still doesn't work, consult the wiring diagram and recheck all wiring connections. Verify timer set points have not been altered. If problems persist, contact us at (518) 884-9591.

**Step 3) Mount relay switch:** Use standard zip ties (not provided) or similar means to mount the relay to dash mount post or dash base. **Note:** The timer relay can be mounted almost anywhere on the bike that will not be exposed to direct rain or weather.

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# WARNING

**INJURY TO YOURSELF OR OTHERS, AND DAMAGE TO YOUR ENGINE & MOTORCYCLE MAY OCCUR IF THESE RULES ARE NOT SPECIFICALLY FOLLOWED**

**Important Notice for Sumpthing™ or Audio Oil Pressure Relay Installation**  
**READ THIS STATEMENT BEFORE ALL INSTALLATIONS**  
**Note: The Sumpthing™ should only be installed on motorcycles with properly working charging systems.**

## **SAFE INSTALLATION & OPERATION RULES:**

- Before installing your new Sumpthing™ it is your responsibility to read and follow the installation instructions and procedures/maintenance provided. This is for your personal safety.
- Gasoline is extremely flammable and explosive under certain conditions and toxic when breathed. **DO NOT SMOKE WHILE WORKING AROUND A MOTORCYCLE.** Perform installation in a well-ventilated area away from open flames and sparks.
- Compressed air and particles dislodged from using compressed air are harmful to eyes and body. Wear protective goggles when using compressed air and always direct air stream away from body parts such as hands and eyes and other people near you.
- Some solvents, degreasers, and other chemicals are harmful to skin, eyes, and body parts. Many items are flammable and present a fire hazard. Read all instruction labels for proper use. Use in well-ventilated area and wear protective clothing when using them to avoid personal injury.
- If motorcycle has been running, wait until engine and exhaust pipes have completely cooled down to avoid burns or other injuries before performing any of the installation steps.
- Before beginning installation, disconnect battery to eliminate potential sparks and inadvertent engagement of starter while working on electronic components.
- Read all instructions thoroughly and carefully making certain that all procedures are understood before attempting any of the installation steps. Contact Briggs Made Cycles Parts, Inc. with any questions or abnormalities occurring during this installation or operation of motorcycle after installing the Sumpthing™.
- Refer to specific authorized Harley-Davidson® service manual for correct disassembly and reassembly procedures for any parts that need to be removed to facilitate installation.
- Use good judgment when performing installation and operating motorcycle. This requires a clear head. Do not perform any installation steps under the influence of alcohol, drugs, or if feeling fatigued.
- For optimal performance and safety, and to minimize potential damage to this or any other component, use the parts provided and follow all installation instructions.
- Check that all oil lines, supply and return, are routed correctly with clamps in place and tightened. Lines must not come in contact with exhaust pipes or other hot surfaces where they could melt, leak, or catch fire.

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