
SERVICE BULLETIN

Original Issue Date: **4/96**Model: **20-400 kW**Market: **Industrial**Subject: **Double-Wall Subbase Fuel Tank Leak Alarm Sensor**

A low battery condition may occur when a double-wall subbase fuel tank leak alarm is used with a transfer switch or trickle-type battery charger (PAA-248952). The old leak alarm sensor (A-276795) requires 400-600 milliamps of current to operate. When the old leak alarm sensor is used with other options, the system current draw may exceed the battery charger's capability.

A new leak alarm sensor (A-226201) that requires no battery current to operate has been developed.

A flat rate of 0.75 hours (20-300 kW flat rate #2759, 350-400 kW flat rate #2760) has been established for this repair. Normal warranty policies apply. Submit a Warranty Claim (Form K-1500), and refer to this service bulletin. Warranty reimbursements for this repair will be honored through December 31, 1996, or until generator set warranty expires.

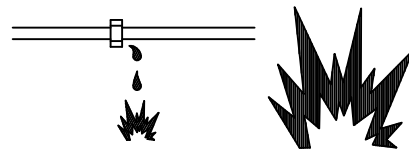
Use the following procedure to install a new leak alarm sensor.



Accidental starting.
Can cause severe injury or death.

Disconnect battery cables before working on generator set (disconnect negative lead first and reconnect it last).

Disabling generator set. Accidental starting can cause severe injury or death. Turn generator set master switch to OFF position, disconnect power to battery charger, and remove battery cables (remove negative lead first and reconnect it last) to disable generator set before working on the generator set or connected equipment. The generator set can be started by an automatic transfer switch or remote start/stop switch unless these precautions are followed.

⚠ WARNING


Explosive fuel vapors.
Can cause severe injury or death.

Use extreme care when handling, storing, and using fuels.

Fuel system. Explosive fuel vapors can cause severe injury or death. All fuels are highly explosive in a vapor state. Use extreme care when handling and storing fuels. Store fuel in a well-ventilated area away from spark-producing equipment and out of the reach of children. Never add fuel to the tank while the engine is running since spilled fuel may ignite on contact with hot parts or from ignition spark. Do not smoke or permit flame or spark to occur near sources of spilled fuel or fuel vapors. Keep fuel lines and connections tight and in good condition. Do not replace flexible fuel lines with rigid lines. Use flexible sections to avoid breakage caused by vibration. Do not operate generator set in the presence of fuel leaks, fuel accumulation, or sparks. Repair systems before resuming generator set operation.

Routing	Service Manager	Sales Manager	Parts Manager	Technician No. 1	Technician No. 2	Technician No. 3	Return This to
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Installation

1. Place the generator set master switch in the OFF position.
2. Disconnect the generator set engine starting battery, negative (-) lead first.
3. Disconnect plug P50 from the leak alarm sensor.
4. Remove old leak alarm sensor (A-276795) from fuel tank.
5. Apply pipe sealant to threads of new leak alarm sensor (A-226201) and install in tank. Position sensor as shown in Figure 1.
6. Connect plug P50 to new leak alarm sensor.
7. Reconnect generator set engine starting battery, negative (-) lead last.

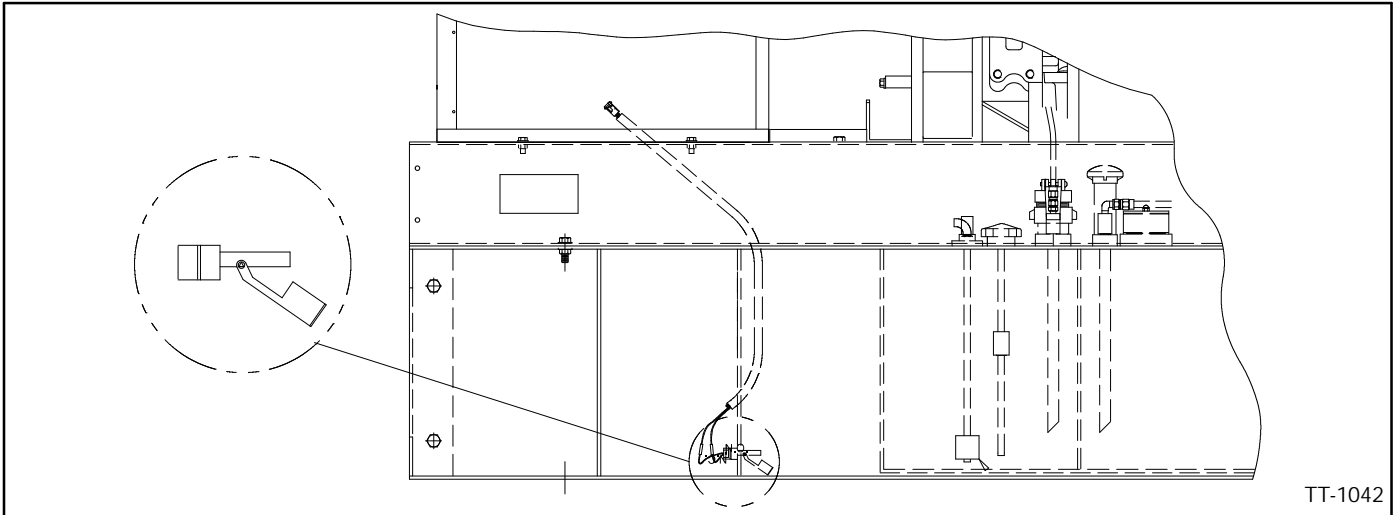


Figure 1. Leak Alarm Sensor Installation Location and Positioning

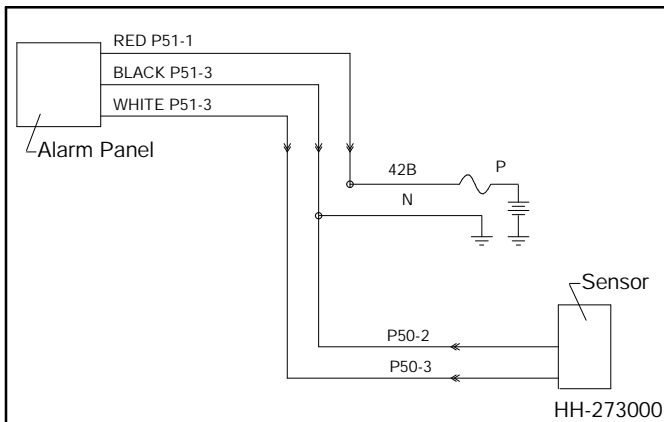


Figure 2. Leak Alarm Sensor Wiring Harness