

**SERVICE BULLETIN**

Original Issue Date: **6/09**

Model: **30RES, 30RYG, and RGEN30**

Market: **Residential/Commercial**

Subject: **Low Oil Pressure (LOP) Switch Replacement Service Kit GM69950**

**Introduction**

The generator set manufacturer has received reports of engine failures on the 30 kW model generator sets listed above. Testing has determined that engine failure can result from oil starvation caused by a failure to check and maintain the engine oil level as recommended in the generator set Operation Manual. If the oil level is allowed to drop, the original low oil pressure (LOP) switch supplied with the engine may not shut down the engine before catastrophic damage occurs.

Replacement LOP switch 364345 shuts down the generator set at a higher oil pressure ( $38 \pm 3$  psi) than the original LOP switch. The higher-pressure shutdown provides added protection from major engine damage due to insufficient oil pressure.

LOP switch 364345 is factory-installed on generator sets with serial numbers above 2243791. See Figure 1 for the LOP switch location on the generator set engine. On generator sets with lower serial numbers or build dates before February 16, 2009, compare the LOP switch to Figure 2 and Figure 3 to determine which type of switch is installed. If the original switch shown in Figure 2 is installed, use service kit GM69950 to replace the LOP switch with switch 364345 and lead GM66559 shown in Figure 3.

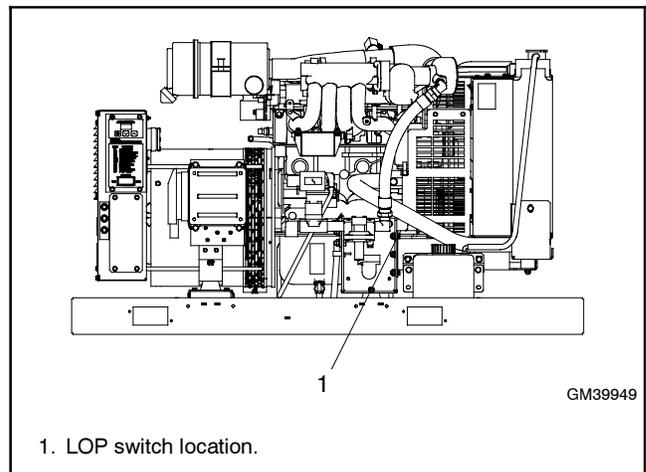
This service bulletin provides instructions for LOP switch replacement. Read the entire service bulletin before proceeding. Perform steps in the order shown.

The low oil pressure switch is not a low level indicator. Instruct the owner to check the oil regularly as described

in the generator set service schedule and add oil as required to keep the oil level at or near the full mark on the dipstick or optional gauge. Refer to the generator set Operation Manual for the service schedule and oil check and fill procedures.

**Warranty Claim Procedure**

Check the LOP switch during a routine maintenance visit and replace any original switches with service kit GM69950. File a warranty claim after replacing the pressure switch. Travel time and mileage will not be paid for warranty claims for this procedure. Standard warranty policies apply. Use flat rate code 5627 and a flat rate time of 0.25 hours. Warranty claims must be filed by December 31, 2010.



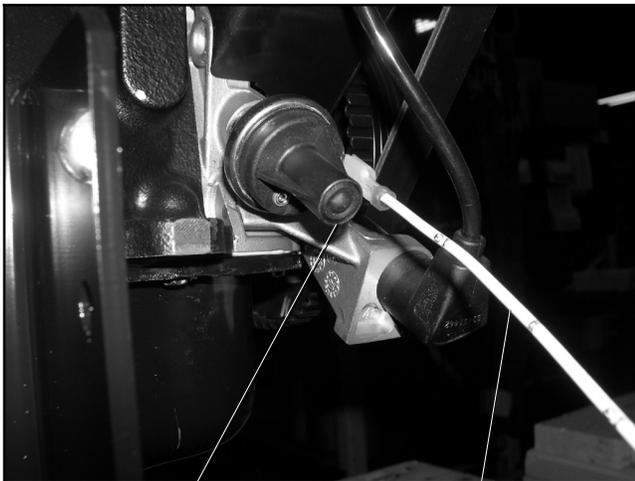
**Figure 1** LOP Switch Location

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



1. Original oil pressure switch sb690\_5098

**Figure 2** Original Oil Pressure Switch



1. Replacement oil pressure switch 364345  
 2. Lead GM66559; connect to lead 13 sb690\_5107

**Figure 3** Replacement Switch 364345

## Safety Precautions

Observe the following safety precautions while servicing the unit.

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### ⚠ WARNING



**Accidental starting.**  
**Can cause severe injury or death.**

Disconnect the battery cables before working on the generator set. Remove the negative (-) lead first when disconnecting the battery. Reconnect the negative (-) lead last when reconnecting the battery.

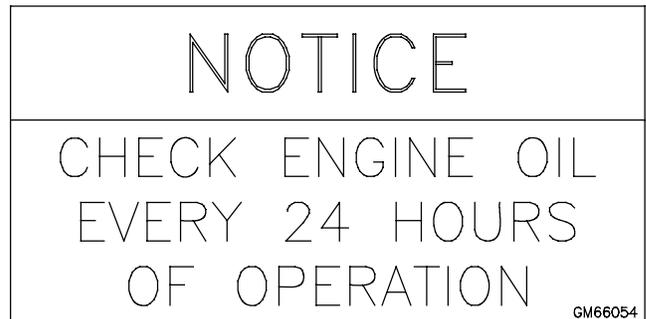
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**Disabling the generator set. Accidental starting can cause severe injury or death.** Before working on the generator set or connected equipment, disable the generator set as follows: (1) Move the generator set master switch to the OFF position. (2) Disconnect the power to the battery charger. (3) Remove the battery cables, negative (-) lead first. Reconnect the negative (-) lead last when reconnecting the battery. Follow these precautions to prevent starting of the generator set by an automatic transfer switch, remote start/stop switch, or engine start command from a remote computer.

## Service Procedure

1. Place the generator set master switch in the OFF position.
2. Disconnect the power to the battery charger, if equipped.
3. Disconnect the generator set engine starting battery(ies), negative (-) lead first.
4. Drain the oil into a container. See the Operation Manual for instructions, if necessary.
5. Disconnect lead 13 from the LOP switch.
6. Remove the LOP switch. Save the copper washer for reuse.
7. Install new LOP switch 364345 using the existing copper washer. Use a torque wrench with a 7/8 in. crowfoot to tighten the LOP switch to 30 Nm (22 ft. lbs.).
8. Attach lead GM66559 to the LOP switch and connect to lead 13 of the engine harness (disconnected in step 5).
9. Refill the engine oil and check for leaks.
10. Affix decal GM66054 in a convenient location as a reminder to check the oil level regularly. See Figure 4.
11. Check that the generator set master switch is in the OFF position.

12. Reconnect the generator set engine starting battery, negative (-) lead last.
13. Reconnect power to the battery charger, if equipped.
14. Start the generator set engine and check for leaks.



**Figure 4** Decal GM66054

## Parts List

### 30RES/RYG LOP Switch

Parts List		
Kit: GM69950		
Qty.	Description	Part Number
1	Switch, assembly pressure	364345
1	Lead, oil pressure switch	GM66559
1	Decal, check oil	GM66054
1	Instructions	SB-690

# Notes