

ISSUE DATE: **8/90** MODEL: **20--180ROZJ** SUBJECT: **Low Water Level** NO.: **505**
 REVISION DATE: -- (with Manual **Fault Shutdown**)
Relay Controllers)

No low water level fault shutdown or nuisance fault shutdown may exist with some 20--180ROZJ generator sets using manual relay controllers. This condition applies to 20--180ROZJ models with manual relay controllers only. All units shipped after July 19, 1990 have an upgraded engine wiring harness.

To correct this problem on existing units, rewiring of the engine harness is necessary. When doing the start-up or the next required routine maintenance, check the generator set wiring harness to *verify* that the changes have been made.



⚠ WARNING **Accidental starting can cause death or serious personal injury.** Turn Generator 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 any equipment connected to generator. The generator set can be started by automatic transfer switch or remote start/stop switch unless these precautions are followed.

Red lead from water level switch connects to lead 70 (early models) or 70A (later models) at in-line connector. This lead should then go to DC voltmeter (+) terminal. If lead 70A is used, this change has been made and no further changes are required. If lead 70 connects to battery charging alternator, follow step 1 and see Figure 1.

1. Disconnect low water level switch lead 70 at battery charging alternator. Cut terminal from end and crimp on 22--16 ga. insulink (not supplied). Connect one end of an 18 ga. wire (not supplied) to insulink and run the other end to DC voltmeter. Cut to proper length, crimp on 22--16 ga. eyelet terminal (#8--10 screw size) (not supplied), and connect to DC voltmeter (+) terminal.

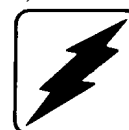
Lead 70 from governor relay (located on inside front panel of junction box) terminal 86 should connect to terminal 70 at safeguard breaker terminal strip. If this lead connects to DC voltmeter (+) terminal, follow step 2 and see Figure 2.

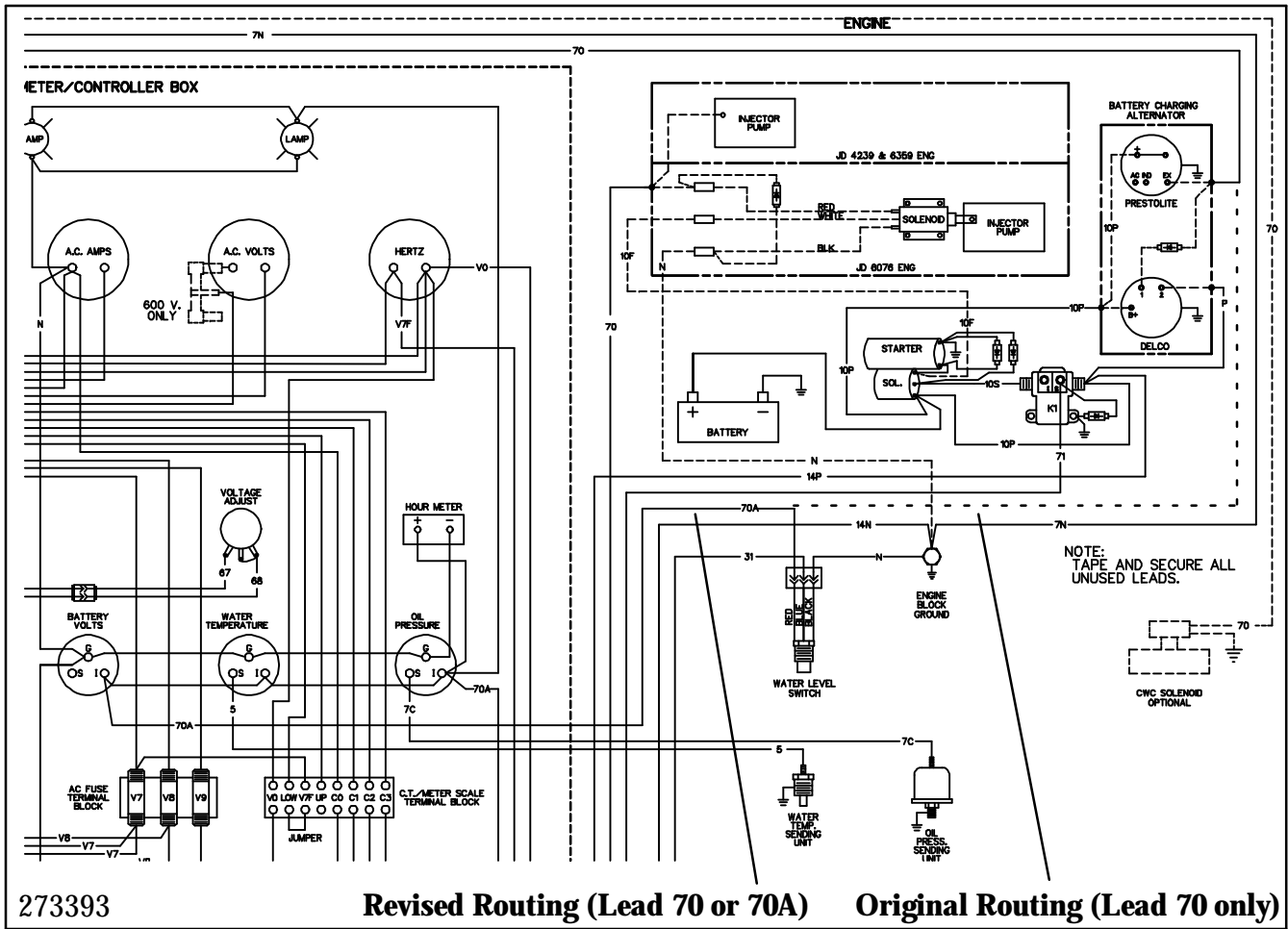
2. Remove lead 70 from governor relay terminal 86 at DC voltmeter (+) terminal and connect to terminal 70 at safeguard breaker terminal strip.

All leads should be placed inside wiring harness (plastic conduit) where possible. Use cable ties, as necessary, to protect and secure wiring from sharp objects, exhaust system, and any moving parts.

A flat rate of one-half hour has been established for this program. In cases where a service call was required and it was *not* in conjunction with routine maintenance, travel time can be added. Submit a warranty claim (Form KO--1500) referencing this service bulletin. This program will be honored through December 31, 1990.

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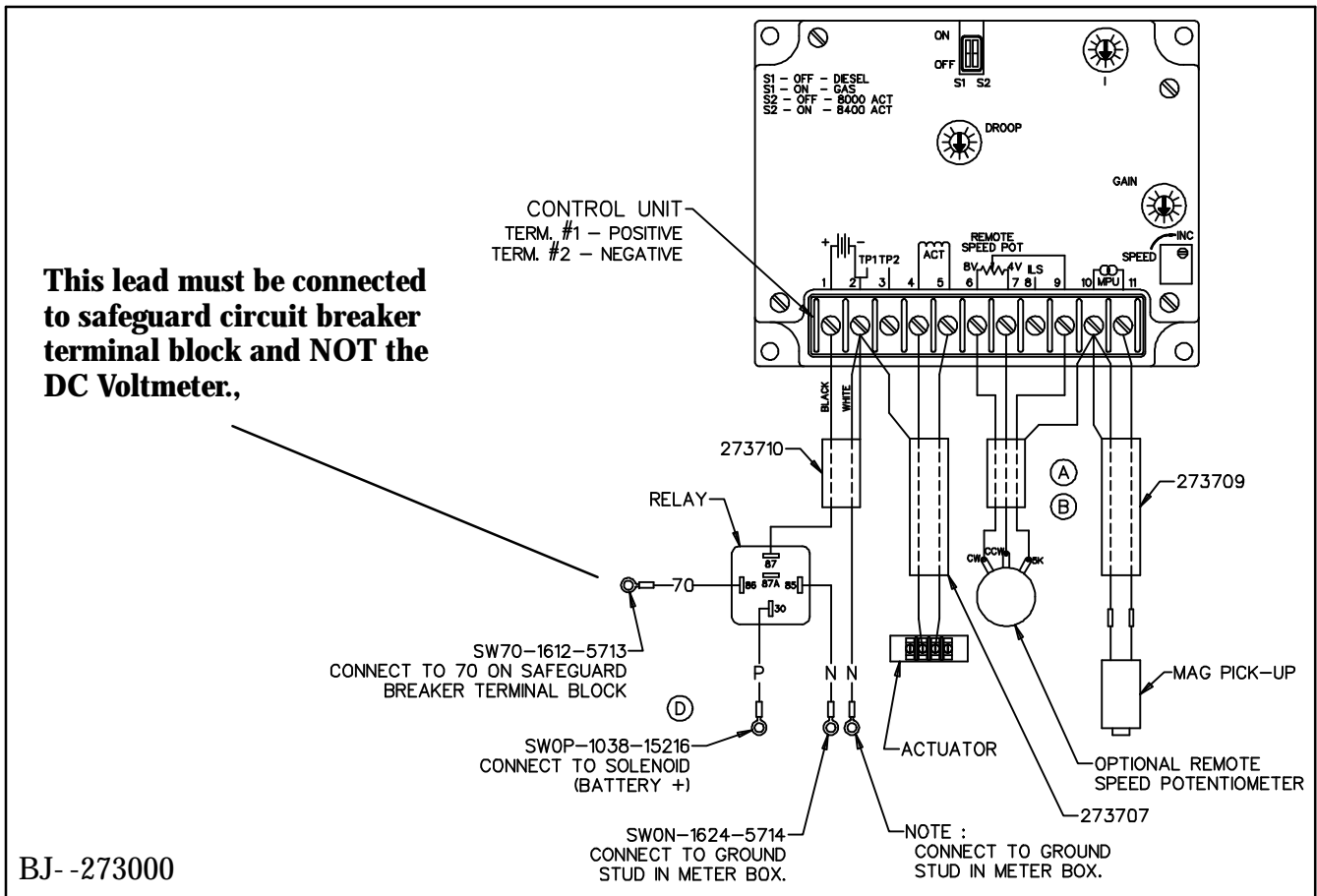




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Revised Routing (Lead 70 or 70A) Original Routing (Lead 70 only)

Figure 1. Water Level Switch Lead



BJ--273000

Figure 2. Governor Relay Lead