SERVICE BULLETIN

Original Issue Date: **9/00**
Model: **COM-6, 24/48VDC**
Market: **Industrial**
Subject: **DC Power Output Connections**

Introduction

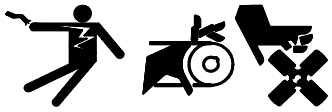
This service bulletin describes the output connections for the COM-6 generator set.

The COM-6 uses a floating DC output, allowing customer connection to floating, positive ground, or negative ground systems. Standard units have the circuit breaker connected on the positive side of the DC output. Some customer applications use units with the circuit breaker connected on the negative side of the DC output. The following instructions explain how to connect the output leads for each type of system.

Refer to the Operation and Installation Manual for cable specifications.

Safety Precautions and Instructions

⚠ 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.

Disabling the generator set. Accidental starting can cause severe injury or death. Before working on the generator set or equipment connected to the set, disable the generator set as follows: (1) Disconnect the power to the battery charger, if equipped. (2) Remove the battery cables, negative (-) lead first. Reconnect the negative (-) lead last when reconnecting the battery. Follow these precautions to prevent the starting of the generator set by the remote start/stop switch.

Short circuits. Hazardous voltage/current can cause severe injury or death. Short circuits can cause bodily injury and/or equipment damage**.** Do not contact electrical connections with tools or jewelry while making adjustments or repairs. Remove wristwatch, rings, and jewelry before servicing the equipment.

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

Standard units have the circuit breaker connected on the positive (+) side of the DC output. Connect the output leads inside the controller box as described below and shown in Figure 1.

Connection Procedure for Standard Systems with the Breaker on the Positive Side

1. Connect the the positive (+) output lead to the lower terminal of the circuit breaker.

2. Connect the negative (–) output lead to the red (or orange) insulated stand-off in the upper back corner of the control box. See Figure 1.

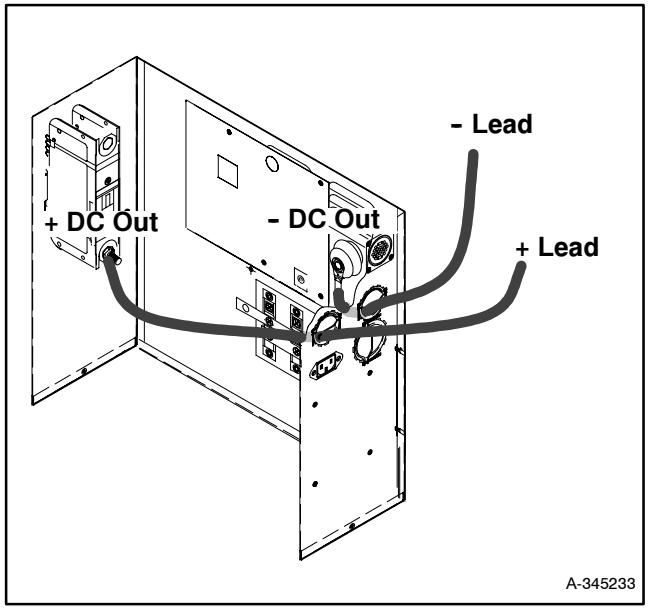

Figure 1 Standard COM-6 DC Output Connections

Some customer applications use systems that have the circuit breaker connected on the negative (–) side of the DC output. Connect the output leads inside the controller box as described below and shown in Figure 2.

Connection Procedure for Systems with the Breaker on the Negative Side

1. Connect the the negative (–) output lead to the lower terminal of the circuit breaker.

2. Connect the positive (+) output lead to the red (or orange) insulated stand-off in the upper back corner of the control box.

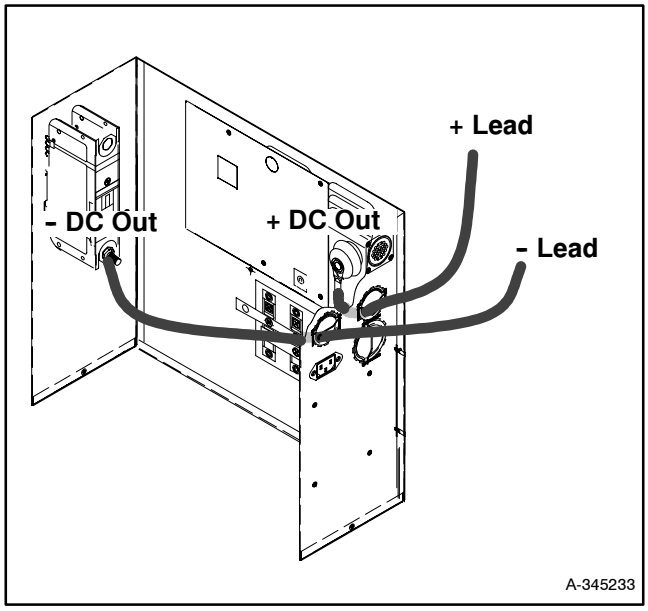

Figure 2 COM-6 DC Output Connections with the Breaker on the Negative Side

For more information, please contact Kohler Co. Generator Division, Applications Engineering.