



INSTRUCTIONS

This manual contains important warnings and information.
READ AND KEEP FOR REFERENCE.

GM3500[®], GM5000[®], GM7000[®] AIRLESS PAINT SPRAYERS

Pressure Control Replacement Kit 239-266 and Control Board Replacement Kit 239-056

GENERAL REPAIR INFORMATION

WARNING



INJECTION HAZARD

The system pressure must be manually relieved to prevent the system from starting or spraying accidentally. Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the **Pressure Relief Procedure** whenever you:

- are instructed to relieve the pressure,
- stop spraying,
- check or service any of the system equipment,
- install or clean the spray tip.

Pressure Relief Procedure

1. Engage the gun safety latch.
2. Turn the engine switch to OFF.
3. Move the pressure control ON/OFF switch to OFF.
4. Disengage the gun safety latch. Hold a metal part of the gun firmly to a grounded metal pail. Trigger the gun to relieve pressure.
5. Engage the gun safety latch.
6. Open the pressure drain valve. Leave the pressure drain valve open until you are ready to spray again.
7. Disconnect the spark plug cable.

If you suspect that the spray tip or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, **VERY SLOWLY** loosen the tip guard retaining nut or hose end coupling to Relieve the pressure gradually, then loosen completely. Now clear the tip or hose.

Test your repair before regular operation of the sprayer to be sure the problem is corrected.

Pressure Control Replacement

⚠ WARNING



INJECTION HAZARD

To reduce the risk of serious injury, whenever you are instructed to relieve pressure, follow the **Pressure Relief**

Procedure on page 1.

1. Relieve pressure.
2. Use two wrenches and disconnect the hose at the pressure control. Hold the fitting (A) firmly. See the **CAUTION**, below. See Fig. 1.
3. Disconnect drain hose (104) at the pressure drain valve (53). Remove screw (100) and use two wrenches to disconnect the fitting between the filter and the pressure control. Hold the fitting (A) firmly. Remove the filter with the bracket (96). Loosen the two screws (30) holding the filter to the bracket (96), but do not remove them.

⚠ CAUTION

Do not allow the fitting (A) to turn when removing or connecting the hose or filter. Turning the fittings can shift the calibration of the pressure control.

4. Remove the four mounting screws and washers (302, 303, 304) from the pressure control cover (76). See Fig. 2.
5. Carefully remove the engine control board (301) so as not to stress the cables.
6. Disconnect the black and white wires of the pressure control cable (314) from the engine control board.
7. Disconnect the potentiometer cable assembly (310) from the pressure control cover.
8. Disconnect the red power lead (B) from the ON/OFF switch.
9. Loosen the ground terminal screw (317) and disconnect the ground lead (C).
10. Pull off the engine control board.

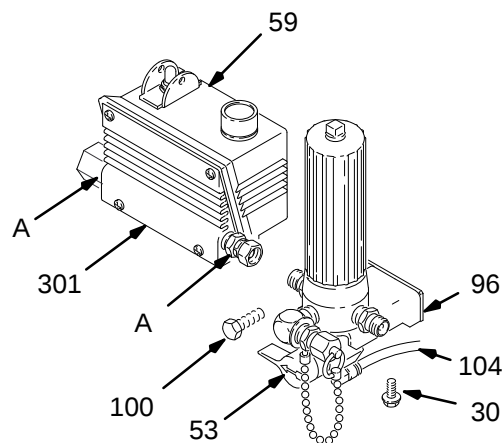


Fig. 1

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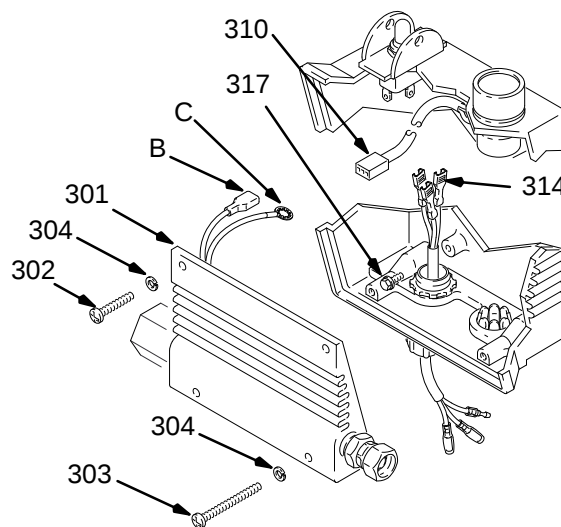


Fig. 2

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⚠ WARNING

Do not attempt to adjust or calibrate the pressure control. If the pressure control is faulty, replace it.

11. Reassemble in the reverse order; attach ground wire (C), power lead (B), and the black and white connectors. Attach the engine control board (301) using the four mounting screws and washers (302, 303, 304).
12. Use two wrenches and tighten the filter and hose fittings (A). See preceding caution.
13. Slide bracket (96) to contact cart squarely. Tighten both filter mounting screws (30). Install and tighten screw (100).

14. If replacing the complete pressure control, follow steps 1 through 3 on page 2 and remove three mounting screws (64) and lock washers (92). Remove pressure control (59). See Fig. 3.

15. Reassemble screws (64) and lock washers (92), then follow steps 12 and 13 on page 2.

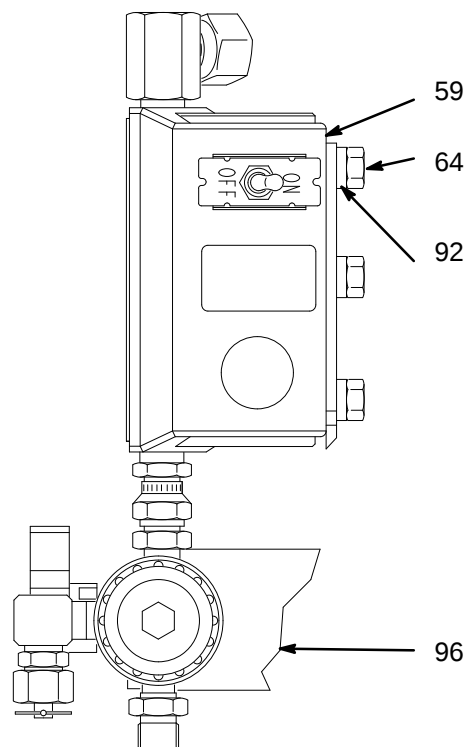


Fig. 3

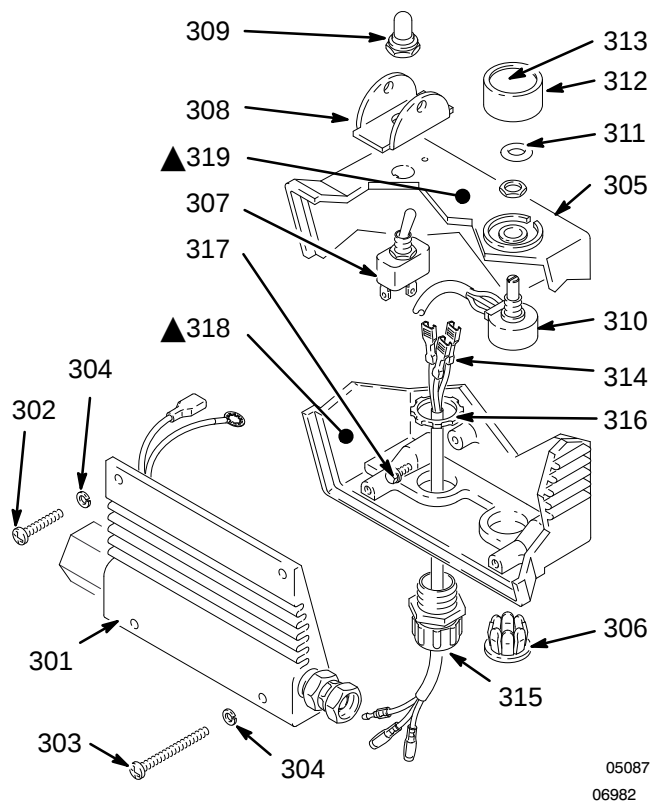
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Pressure Control Parts List

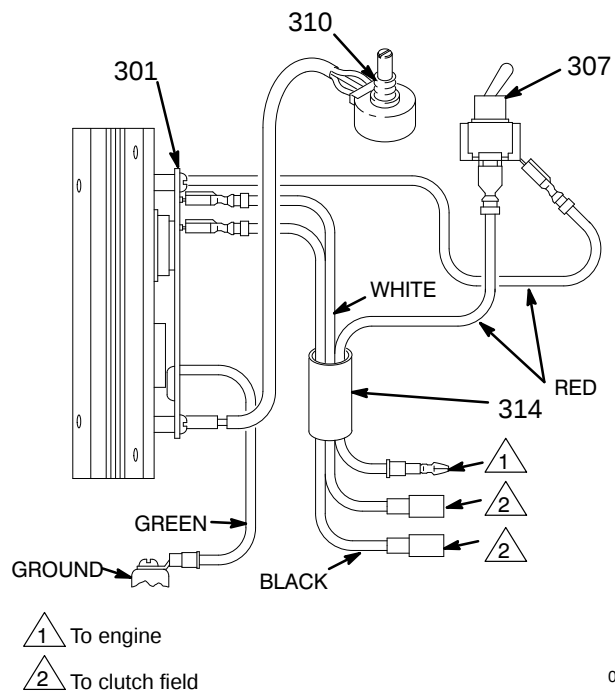
239-046 Pressure Control for the GM3500, GM5000 and GM7000 Sprayers

Ref No.	Part No.	Description	Qty	Ref No.	Part No.	Description	Qty
301	239-047	ENGINE CONTROL BOARD	1	312	112-373	KNOB	1
302	107-251	SCREW, panhead, 10-24 x 1 inch	2	313	185-565	LABEL	1
303	112-610	SCREW, panhead, 10-24 x 2 inch	2	314	237-674	CONDUCTOR	1
304	100-020	LOCKWASHER, No. 10	4	315	109-078	CONNECTOR	1
305	189-095	HOUSING,	1	316	112-376	LOCKNUT	1
306	112-614	PLUG	1	317	100-078	SCREW, hex head, 8-24 x .375 inch	1
307	105-679	TOGGLE SWITCH	1	318▲	189-286	LABEL, warning	1
308	107-255	GUARD	1	319▲	189-246	LABEL, warning	1
309	105-659	BOOT	1	▲ Replacement Danger and Warning labels, tags, and cards are available free.			
310	236-352	POTENTIOMETER, pressure adjustment	1				
311	108-358	SEAL	1				

Parts Drawing – Pressure Control



Wiring Schematic – Pressure Control



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All written and visual data contained in this document reflects the latest product information available at the time of publication.
Graco reserves the right to make changes at any time without notice.

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