

## INSTRUCTION MANUAL

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# AUTO DRAIN

## AN AUTOMATIC MOISTURE DRAIN

## FOR THE 091-9 AIR COMPRESSOR



MODEL #091-9-086

INPUT : 12 Volt, Solenoid

**1 YEAR WARRANTY**



**KUSSMAUL ELECTRONICS CO., INC.**  
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## INTRODUCTION

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The Auto Drain system consists of a 12 volt normally open solenoid, a filter and assorted fittings. Designed to work with the 12 volt Auto Pump, the solenoid bleeds the filter bowl when the pump is not running. As soon as the pressure switch turns on the compressor, the solenoid is energized and the bleed is closed. A check valve that is supplied with the Auto Drain kit must be installed as shown to seal off the vehicles air pressure when the bleed valve opens.

## AUTO DRAIN COMPONENTS

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ITEM	QUANTITY	PARTNUMBER	DESCRIPTION
1	1	A2231-1-C203	Solenoid Valve, 12 volts D.C., normally open
2	1	F5044-02-DH-Z310	Filter, with metal bowl
3	1	216P-2	Nipple, 1/8 NPT Close
4	1	219-P-2	Plug, 1/8 NPT
5	1	219-P-4	Plug, 1/4 NPT
6	1	130CA	Elbow, 1/4 NPT, male - 1/8 NPT male
7	1	1202P4-4	Street elbow, 1/4 NPT
8	1	PL1/4-NIUT	Elbow, 1/8 NPT, male - 1/4 tube
9	1	14CVS	Check Valve, 1/4 NPT male - 1/4 NPT male
10	1	PLB101-4	Tee, brass, 1/4 NPT
11	1	NN4-035	1/4 Tubing, 24 inches
12	1	PVC-1/4	Sleeving, 1/4" PVC, 11 inches
13	1	PLB112-4	Nipple, 1/4 NPT, Close



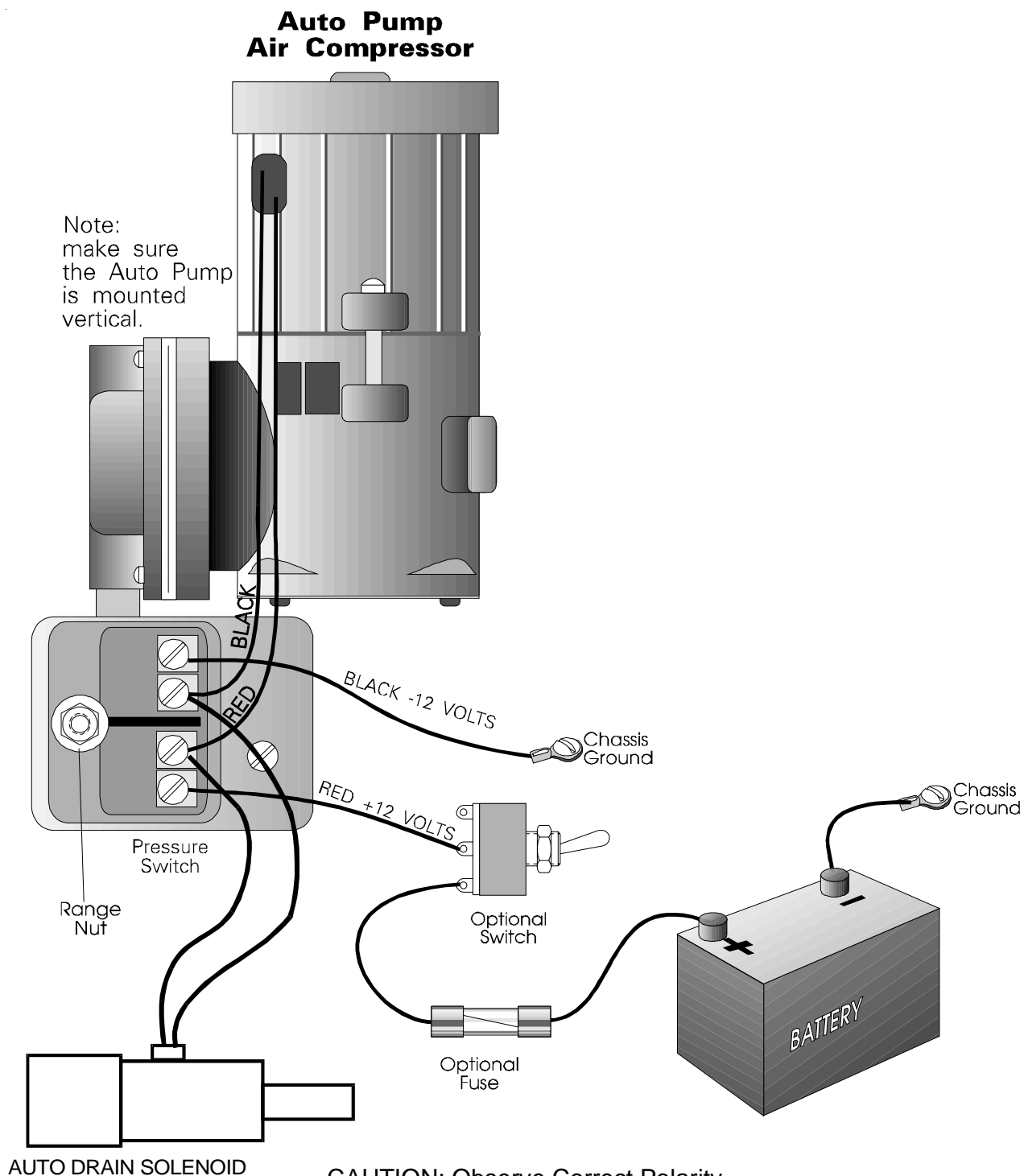
### **091-9-086 AUTO DRAIN INSTALLED ON 091-9 AUTO PUMP**

- Note:
1. Install pressure switch on Auto Drain before installing Auto Drain on pump.
  2. It may be necessary to slightly rotate solenoid valve to clear pressure switch when installing.

# AUTO DRAIN WIRING INSTALLATION

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1. Install the black sleeving over the solenoid wires
2. Connect the AUTO DRAIN solenoid wires to output terminals of pressure switch. These are the same terminals that supply power to the AUTO PUMP motor
3. The AUTO DRAIN is now properly connected. Test by bleeding system pressure to start AUTO PUMP and note that when pump shuts down, air and moisture will bleed out of drain tube.
4. Position drain tube to direct moisture to exterior of vehicle.



CAUTION: Observe Correct Polarity

# INSTALLATION RECORD & WARRANTY

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Date Installed \_\_\_\_\_

Installed By \_\_\_\_\_

Vehicle Identification \_\_\_\_\_

Vehicle Owner \_\_\_\_\_

All Auto Pumps of Kussmaul Electronics Company Inc. are warranted to be free of defects of material or workmanship. Liability is limited to repairing or replacing at our factory, without charge, any material or defects which become apparent in normal use within 1 year from the date the equipment was shipped. Equipment is to be returned, shipping charges prepaid and will be returned, after repair, shipping charges paid.

Kussmaul Electronics Company, Inc. shall have no liability for damages of any kind to associated equipment arising from the installation and /or use of the Kussmaul Electronics Company, Inc. products. The purchaser, by the acceptance of the equipment, assumes all liability for any damages which may result from its installation, use or misuse, by the purchaser, his or its employees or others.