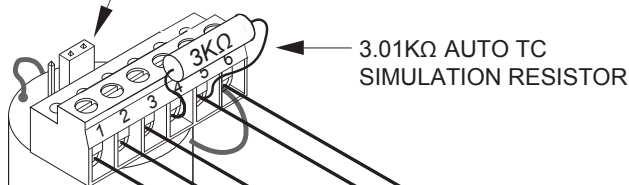
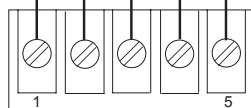
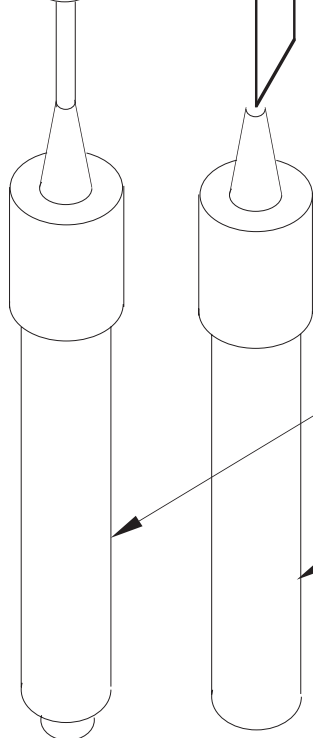
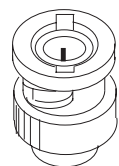


POSITION JUMPER ON PINS AS SHOWN FOR INVERTED OUTPUT POLARITY.



3.01KΩ AUTO TC SIMULATION RESISTOR

CONNECT IN PLACE OF THE 3.01KΩ RESISTOR FOR AUTOMATIC TEMPERATURE COMPENSATION



+5 -5 SC PC TA  
TERMINALS INSIDE THE L&N 7079 CASE

pH COMBINATION ELECTRODE OR GLASS ELECTRODE

3KΩ BALCO AUTO TC MAY BE SEPARATE, AS SHOWN, OR BUILT INTO SENSOR

## NOTES :

### GENERAL

OUTPUT TO THE INSTRUMENT FROM THE PREAMP IS UNITY GAIN, INVERTED POLARITY. 7079 POWER SUPPLIES ARE  $\pm 5V$ , AND THE INPUT IMPEDANCE APPROXIMATELY 108Ω.

WHEN A COMBINATION ELECTRODE IS USED, REFERENCE CONNECTION IS MADE THROUGH THE GREEN WIRE TO TERMINAL 6. IF REFERENCE CELL IS SEPARATE, CONNECT ITS LEAD WIRE TO TERMINAL 6 ALONG WITH THE GREEN WIRE.


### TEMPERATURE COMPENSATION

STANDARD 7079 TC IS ACCOMPLISHED WITH A POSITIVE COEFFICIENT THERMISTOR THAT READS 721.3Ω AT 25°C. THE V1-LN AMPLIFIER WILL PERFORM THE SAME COMPENSATION USING A 3KΩ AT 25°C BALCO ELEMENT, WITH A SLOPE OF +13.5Ω/°C. ONLY THE 3KΩ BALCO SHOULD BE USED, AS THE PREAMP CONTAINS A SERIES RESISTOR TO SIMULATE THE L&N ELEMENT. THE AMPLIFIER SHIPS WITH A 3.01KΩ RESISTOR BETWEEN TERMINALS 4 AND 5 TO PROVIDE MANUAL TC. IF AN AUTO TC ELEMENT (3K BALCO) IS USED, THIS RESISTOR MUST BE REMOVED.

### SHIELDING

TAKE CARE NOT TO ALLOW THE BNC SHIELD (REFERENCE LEAD) TO CONTACT METAL PIPING OR J-BOXES AT ANY POINT, AS THIS WILL SHORT THE REFERENCE CELL TO EARTH GROUND, AND CAUSE UNSTABLE READINGS. SHIELDING OF THE CABLE FROM AMPLIFIER TO INSTRUMENT IS USUALLY NOT REQUIRED. IF A SHIELD IS USED, CONNECT IT TO EARTH GROUND AT ONE POINT ONLY, AND BE SURE THAT IT DOES NOT TOUCH ANY OF THE OTHER LEADS.

NOTES UNLESS OTHERWISE SPECIFIED:

		11751 Markon Drive	
		Garden Grove, CA. 92841 USA	
DRAWN <b>BOB HUNT</b>		TITLE <b>V1-LN PREAMPLIFIER WIRING</b>	
CHECKED		<b>L&amp;N SERIES 7079-11</b>	
APPROVED	SCALE <b>NONE</b>	DRAWING NO.	REV.
Rev. C, 4/12/93	SHEET <b>1 OF 1</b>	<b>V1-LN-7079</b>	<b>C</b>

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