

# INSTRUCTIONS

## CAT. # 2DC8-2 DUAL INSTRUMENT

CYLINDER HEAD TEMP. / CYLINDER HEAD TEMP.  
RANGE 25-375 c. / 25-375 c.  
USE WITH 4 FOOT TYPE J ( 712-series )  
THERMOCOUPLE SENDERS.

### ! IMPORTANT !

This system is factory calibrated at 24 deg. C. The indicator measures the temperature difference between the hot end (PROBE) and the pin terminals on the other end of the thermocouple. (COLD JUNCTION).

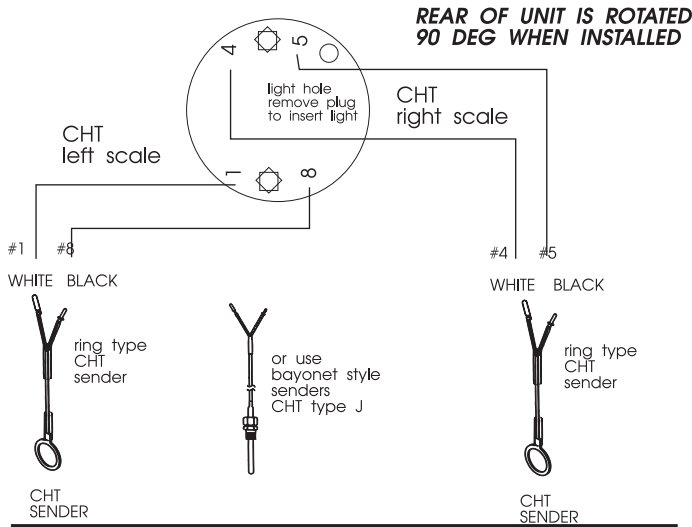
For COLD JUNCTION temperature of 24 deg. The indicator will read the true temperature of the PROBE end of the thermocouple.

For COLD JUNCTION temperatures HIGHER than 24 deg. The indicator will read one deg. LOW for each deg. above 24 deg.

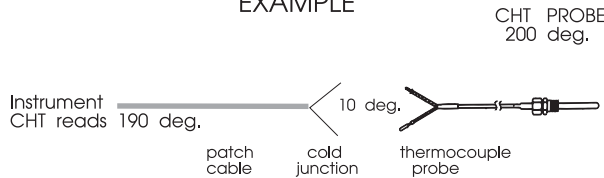
For COLD JUNCTION temperatures LOWER than 24 deg. The indicator will read one deg. HIGH for each deg. below 24 deg.

This thermocouple "error" is a normal characteristic of self powered thermocouple systems. If possible, locate the thermocouple COLD JUNCTION connection to patch cable away from heat (or extreme cold) to minimize thermal "error".

When the COLD JUNCTION is 38 deg. and the system is calibrated at 24 deg., that means the COLD JUNCTION is 14 deg. high and the indicator will read 14 deg. low. See example in illustration.



### EXAMPLE



For lighting, order light kit # 186

To prevent damage to instrument, do not connect to any other power source.

Mount instrument in a 2 1/16 inch hole in convenient operating place. Use U clamp to hold in place.

Install the CHT thermocouples under the spark plugs (the gasket is usually removed). Of the leanest cylinders as defined by the engine manufacturer. Or in the bayonet port if supplied on manifold. Route thermocouple leads away from spark plug wires and hot manifolds, support with wire ties every 12-15 inches. Use rubber grommets when going through metal.

On the rear of the instrument there are connecting pins with corresponding numbers.

Use patch cable provided to connect the CHT thermocouple to the instrument. For the left scale, connect pin #4 to the white thermocouple lead and connect pin #5 to the black thermocouple lead. For the right scale, connect pin #1 to the white thermocouple lead and connect pin #8 to the black thermocouple lead. Slide protective tubing over connections to prevent shorting. See illustration.

Patch cable may be shortened or lengthened up to 20 feet without affecting accuracy of unit. Using 20-22 gauge stranded wire is recommended. Do not shorten the thermocouple leads.

If no reading, reverse connections.

### WARRANTY

WESTACH INSTRUMENTS are made with the highest quality material and workmanship. With reasonable care, instruments will give long and satisfactory service. WESTACH INSTRUMENTS are guaranteed against defective material and workmanship for 12 months from the manufacturing date. For complete details go to [www.westach.com](http://www.westach.com)



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