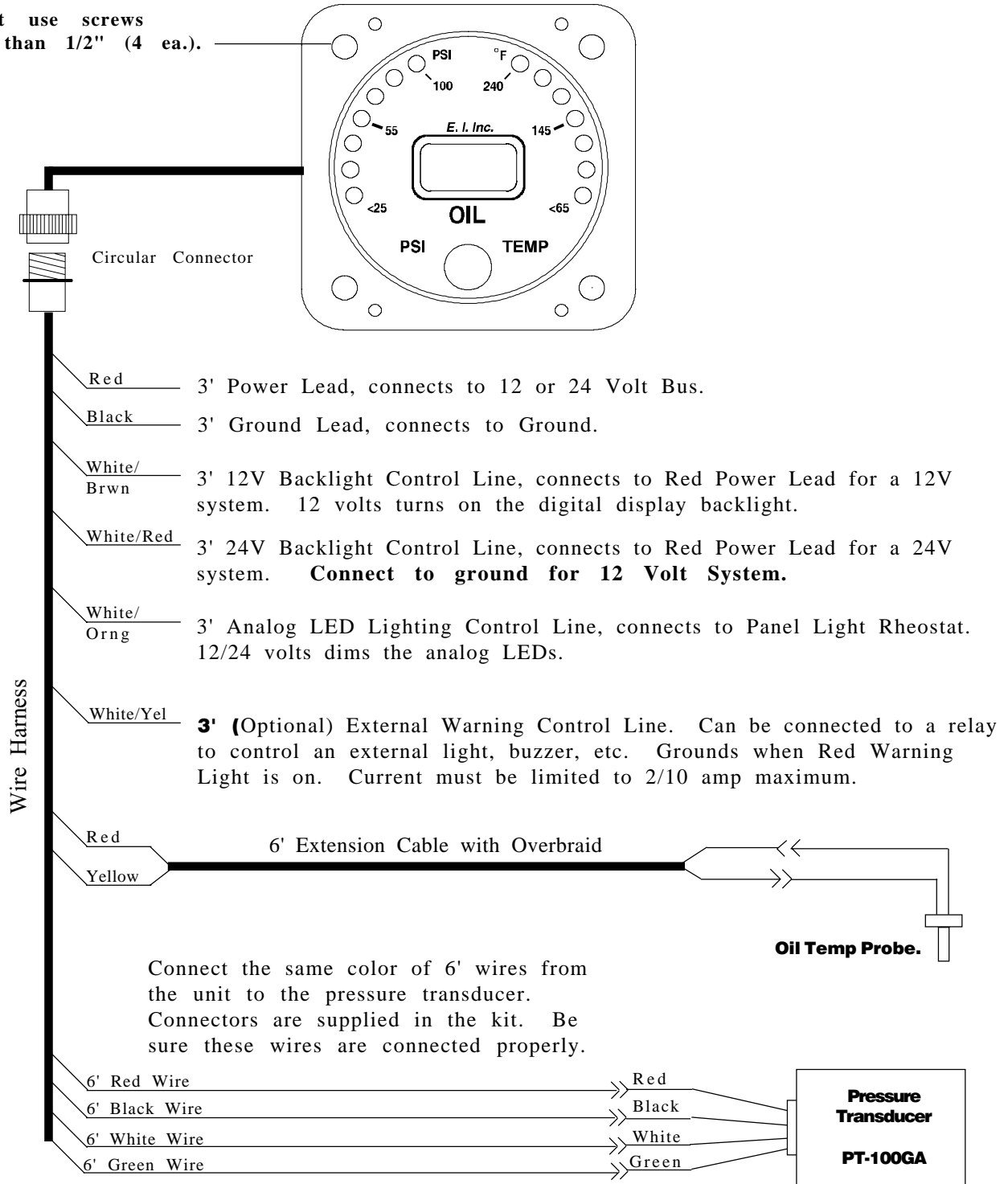


# Oil Pressure/Temp (OPT-1) Wiring Diagram

WD 0315911

Do not use screws longer than 1/2" (4 ea.).



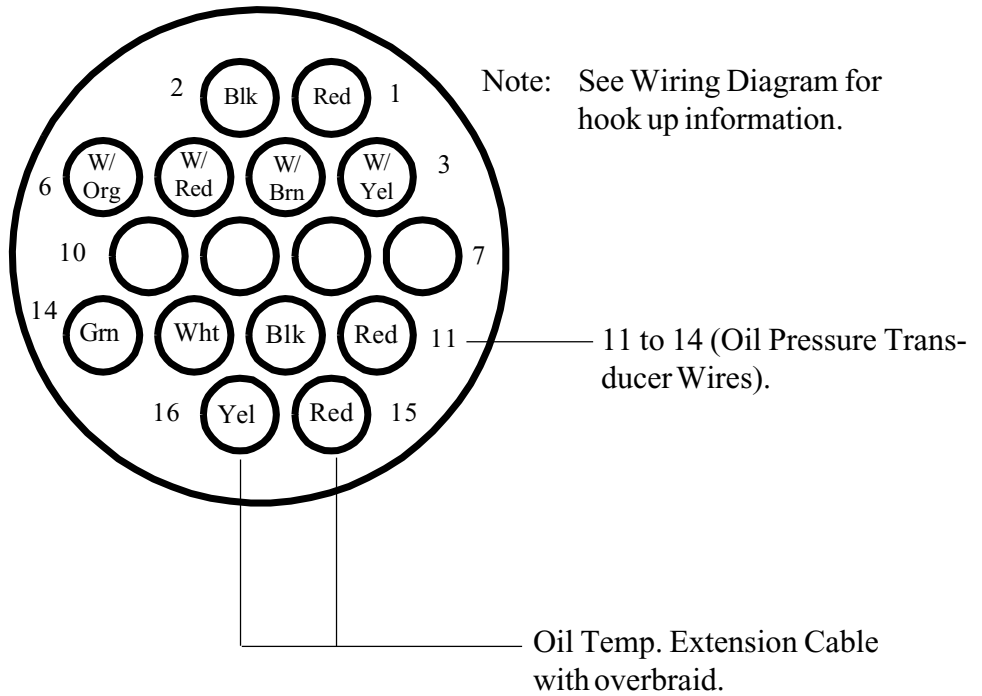
Install Connectors. Double wires and crimp tight when installing connectors.

# OPT-1 Circular Connector

Connecting Cable Harness, Back View (wire side)

OR

Instrument Connector, Front View



# Specifications and Operating Features

## Model:

OPT-1 (Oil Pressure/Temperature Instrument)

## Case Dimensions:

2.5" x 2.5" x 3.65" depth, 2 1/4" Bezel.

## Weight:

Unit Only: 10 Oz.  
Pressure Transducer: 8 Oz.  
Temp Probe and 6 ft. cable: 4 Oz.  
Extra Extension cable: .33 Oz./ft.

## PT-100GA Pressure Transducer:

0 to 100 PSI  
300 PSI Proof  
500 PSI Burst  
1/8" NPT female

## P-120 Temperature Probe:

-50°F to 700°F  
5/8 - 18 Thread

## Environmental:

Meets TSO C47/C43a.

## Power Requirements:

7.5 to 35 Volts, 1/10 Amp.

## Analog Display:

Two sets of 7 High Intensity Light Emitting Diodes (LEDs) in a 90 degree arc with Intensity Control Line available for dimming. Sequential flash test on power up. Microprocessor eliminates LED hunting (flicker).

## Red LEDs:

If the Analog Display goes from a Green LED or Yellow LED to a Red LED, the Red LED will blink 20 times then go solid Red. Red Limit LEDs are always displayed at full intensity.

## Digital Display:

LCD (viewable in direct sunlight), with 12 and 24 volt backlight control wires for night operation. Displays "8888" on power up.

## Accuracy:

Pressure: 2% in accordance with TSO C47/C43a.  
Temperature: 2% in accordance with TSO C47/C43a.

## Resolution:

Pressure: 1 PSI. (Readings at or below 5 PSI will be displayed as "00")  
Temperature: 1°F.

## Max Displayed Range (Unit Only):

Pressure: 5 to 999 PSI.  
Temperature: 0 to 1999°F.

## Update Time:

2 times per second.

## External Warning Control Line:

Grounds when any Red Warning Light is on or blinking. Current should be limited to 2/10 amp.