

2.1 $D = 0.06408 \text{ in} = 0.001628 \text{ m}$.

$$A = \frac{\pi D^2}{4} = 2.082 \times 10^{-6}$$

$$\rho = 1.7 \times 10^{-8} \Omega \text{m}, \quad L = 1000 \text{ m}$$

$$R = \frac{\rho L}{A} = 8.2 \Omega$$

2.2

$$(a) \quad R_1 = 21 \times 10^3 \pm 20\% \quad \text{so} \quad 16.8 \text{k}\Omega \leq R_1 \leq 25.2 \text{k}\Omega$$

$$(b) \quad R_2 = 0.7 \times 10^3 \pm 20\% \quad \text{so} \quad 5.6 \text{k}\Omega \leq R_2 \leq 8.4 \text{k}\Omega$$

$$(c) \quad R_s = R_1 + R_2 = 21.7 \text{k}\Omega \pm 20\% \quad \text{so} \quad 17.4 \text{k}\Omega \leq R_s \leq 26.0 \text{k}\Omega$$

$$(d) \quad R_p = \frac{R_1 R_2}{R_1 + R_2}$$

$$R_{p_{\min}} = \frac{R_{1_{\min}} R_{2_{\min}}}{R_{1_{\max}} + R_{2_{\min}}} = 5.43 \text{k}\Omega$$

$$R_{p_{\max}} = \frac{R_{1_{\max}} R_{2_{\max}}}{R_{1_{\max}} + R_{2_{\max}}} = 8.14 \text{k}\Omega$$

2.3 $R_1 = 10 \times 10^2, \quad R_2 = 25 \times 10^1$

$$R = \frac{R_1 R_2}{R_1 + R_2} = \frac{(10 \times 10^2)(25 \times 10^1)}{10 \times 10^2 + 25 \times 10^1} = 20 \times 10^1$$

a = 2 = red, b = 0 = black, c = 1 = brown, d = gold

2.4 In series, the trim pot will add an adjustable value ranging from 0 to its maximum value to the original resistor value depending on the trim setting. When in parallel, the trim pot could be 0Ω perhaps causing a short. Furthermore, the trim value will not be additive with the fixed resistor.

2.5 When the last connection is made, a spark occurs at the point of connection as the completed circuit is formed. This spark could ignite gases produced in the battery. The negative terminal of the battery is connected to the frame of the car, which serves as a ground reference throughout the vehicle.

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