$$C_T = \frac{1}{1/C_1 + 1/C_2 + 1/C_3...}$$

Figure 1. Equation

$$C_T = \frac{1}{1/C_1 + 1/C_2 + 1/C_3}$$

Figure 2. Equation

$$L_T = \frac{1}{1/L_1 + 1/L_2 + 1/L_3...}$$

Figure 3. Equation

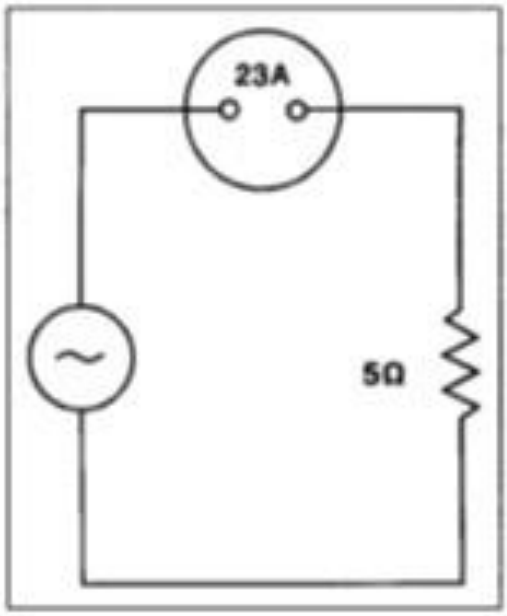

Figure 4

$$Z = \sqrt{R^2 + (X_L - X_C)^2}$$

Z = Impedance
R = Resistance
X_L = Inductive Reactance
X_C = Capacitive Reactance

Figure 5

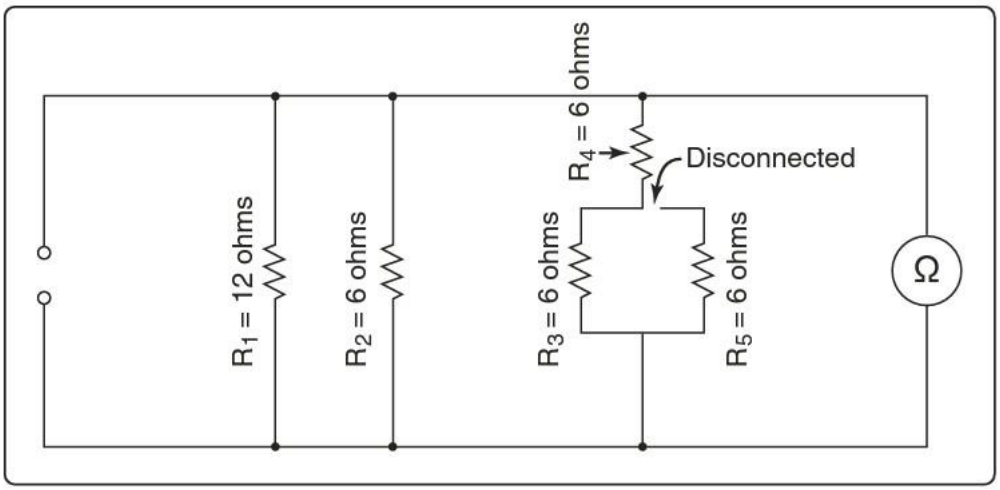

Figure 6. Circuit diagram

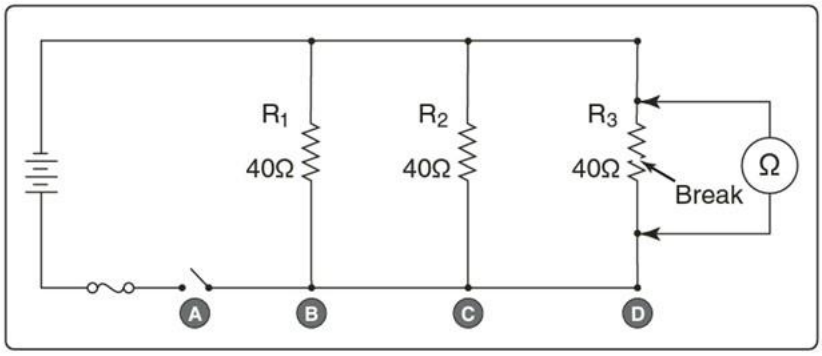

Figure 7. Circuit diagram

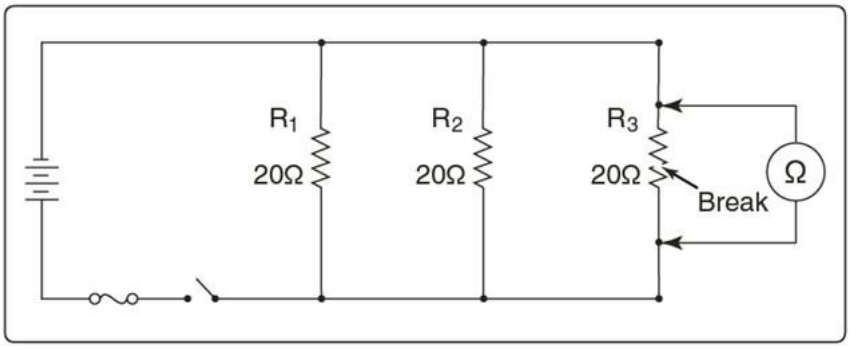

Figure 8. Circuit Diagram

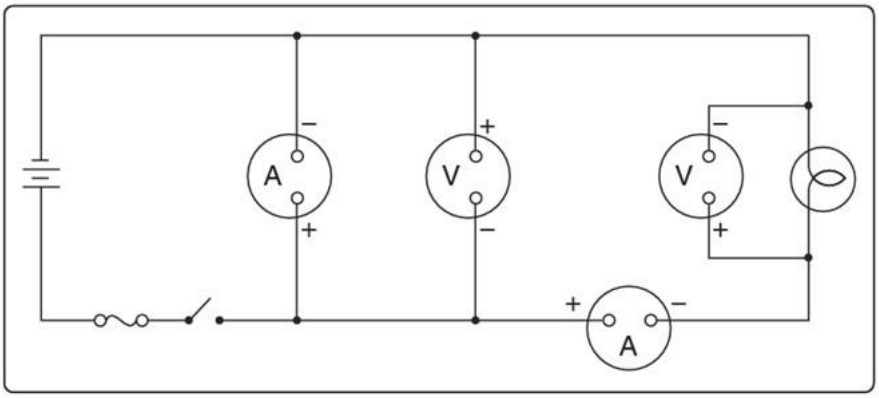

Figure 9. Circuit diagram

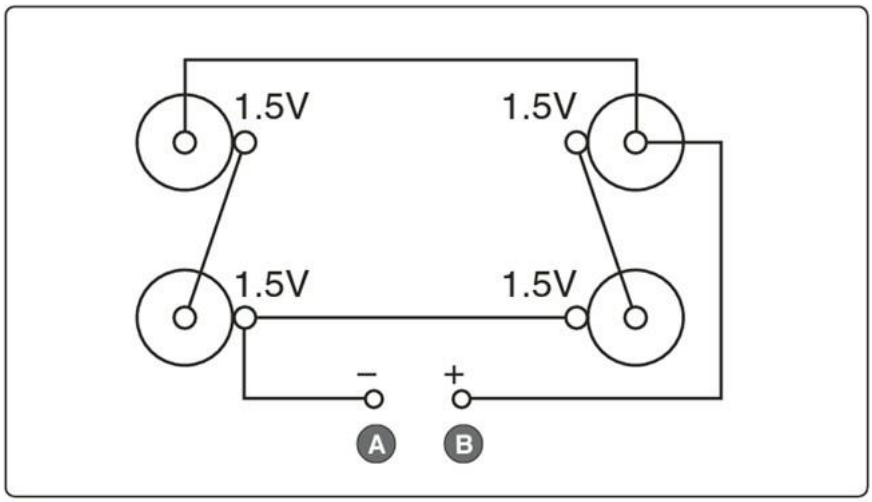

Figure 10. Battery circuit

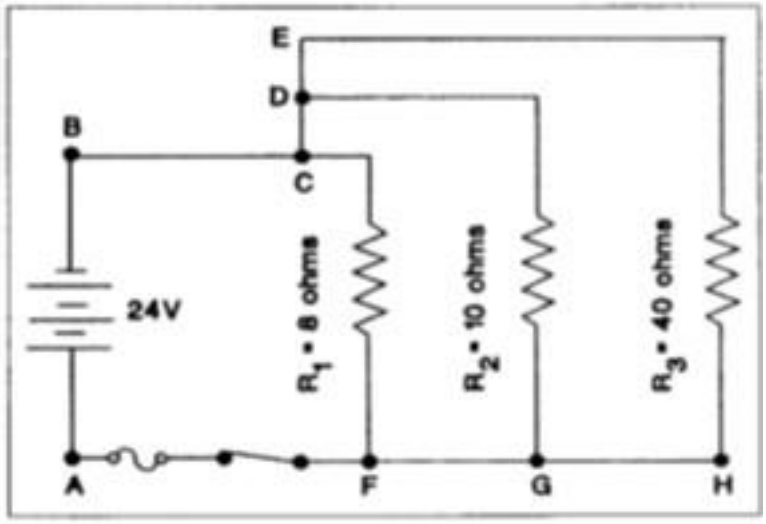

Figure 11

$$R_a = \frac{1}{\frac{1/R}{4} + \frac{1/R}{5}}$$

$$R_b = R_a + R_2$$

$$R_c = \frac{1}{1/R_b + 1/R_3}$$

$$R_t = R_c + R_1$$

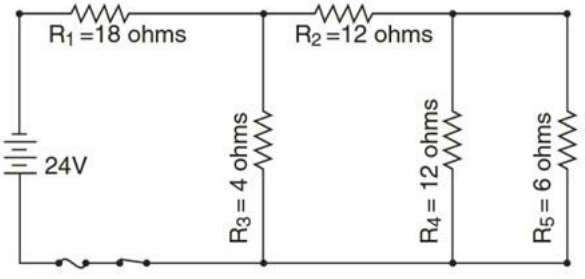

Figure 12. Circuit diagram

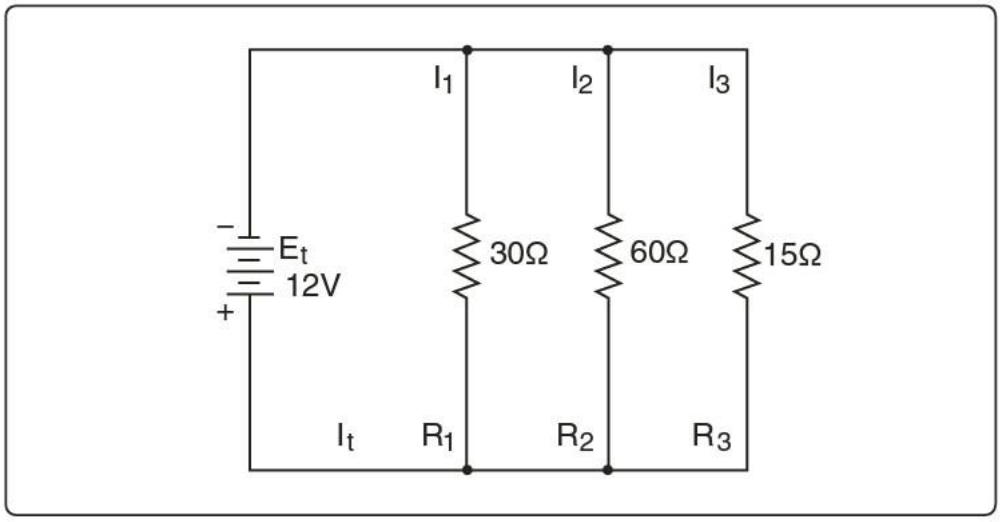

Figure 13. Circuit diagram

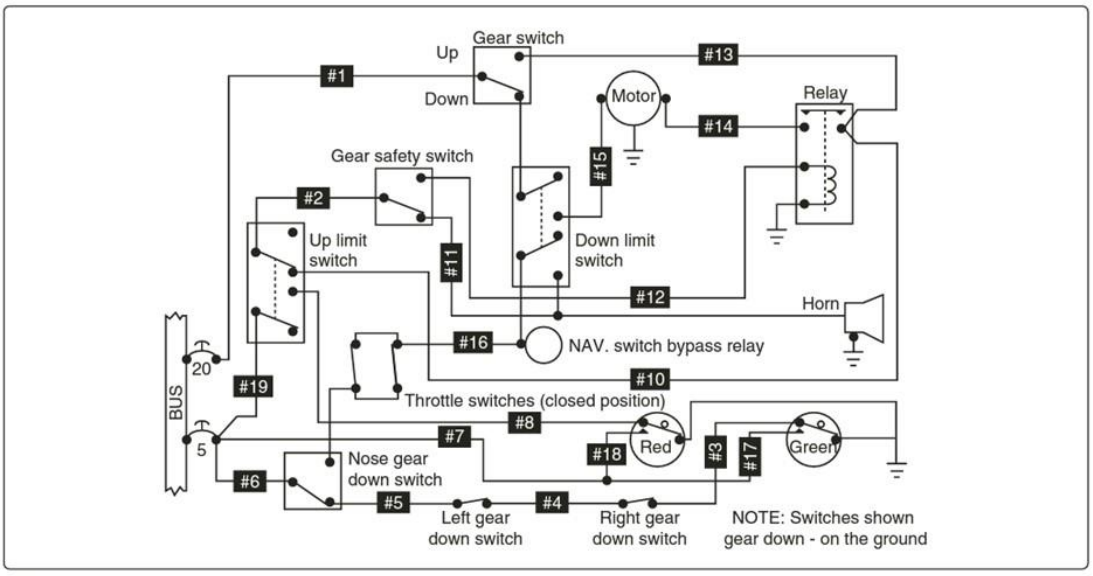

Figure 15. Landing gear circuit

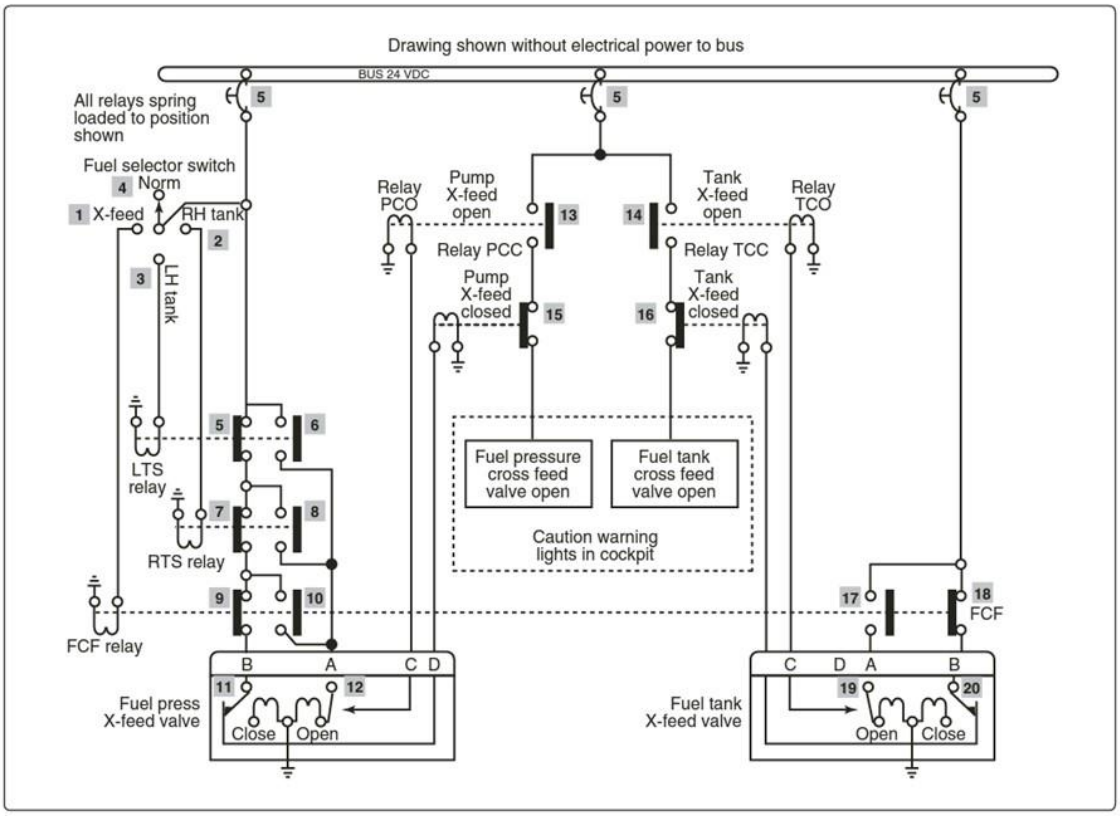

Figure 16. Fuel system circuit

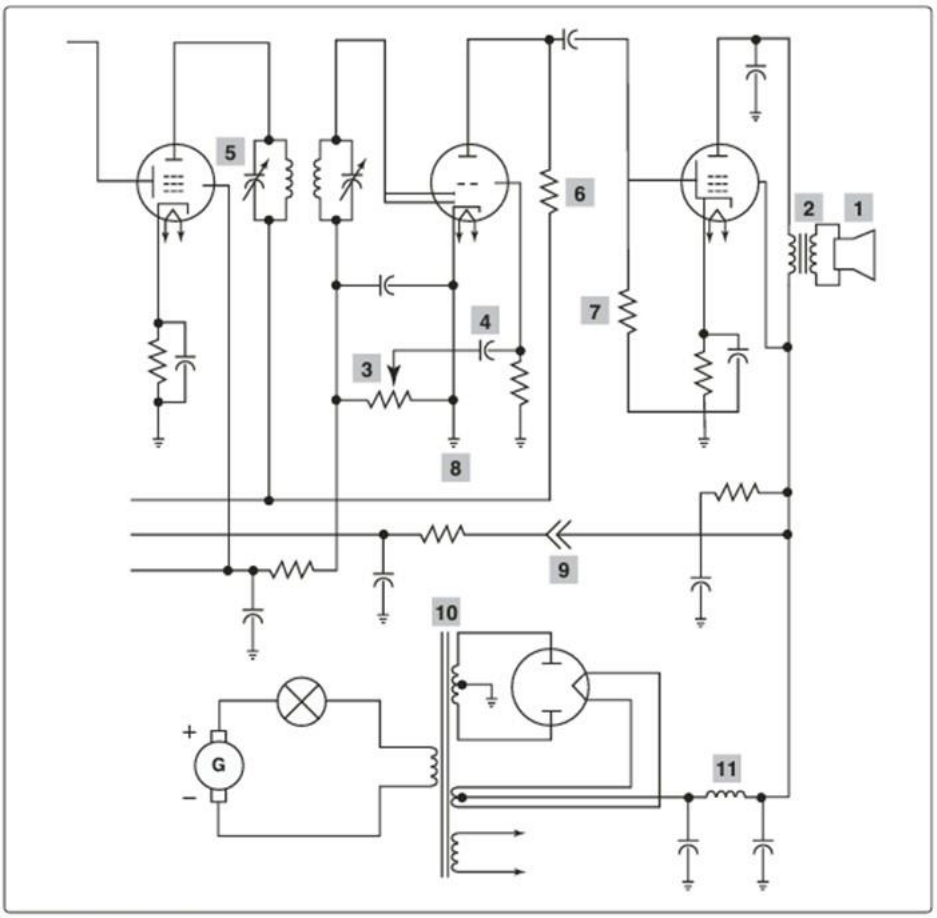

Figure 17. Electrical symbols

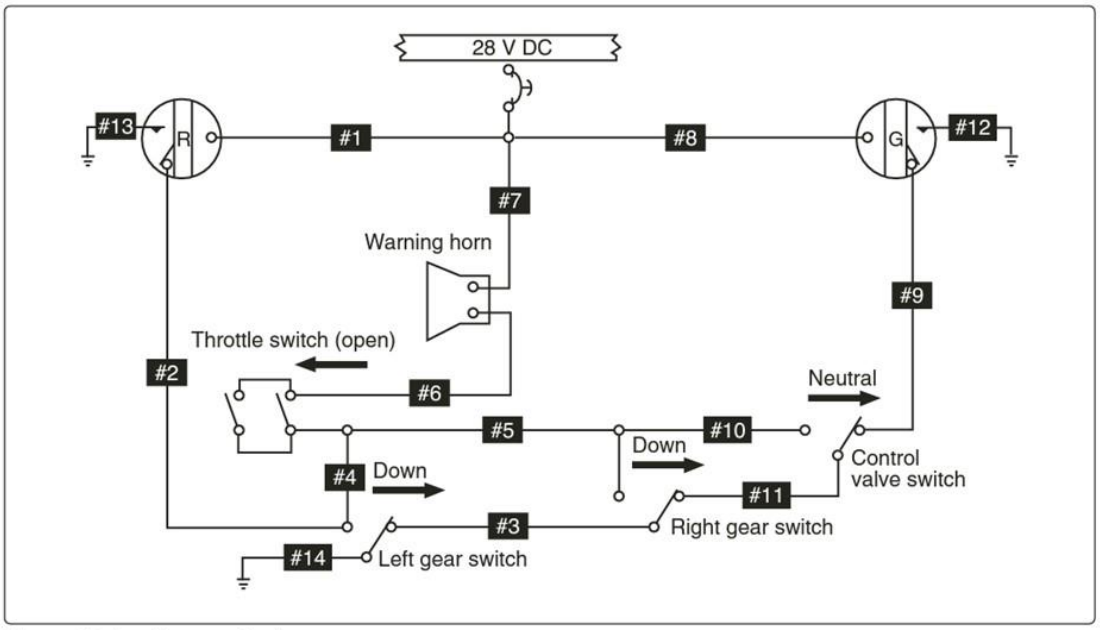

Figure 18. Landing gear circuit

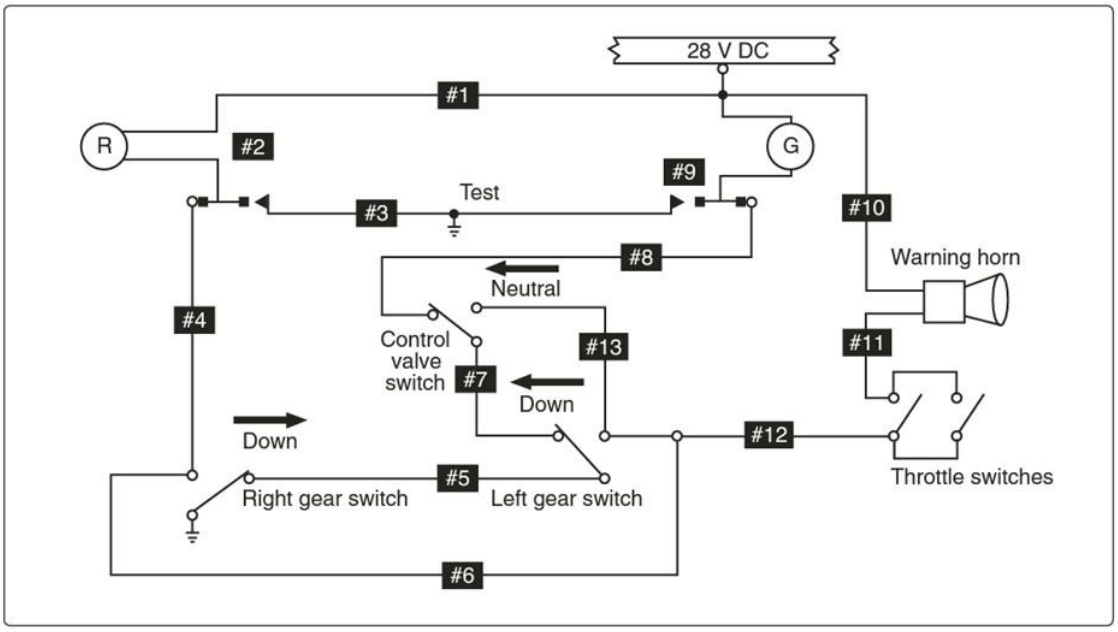

Figure 19. Landing gear circuit

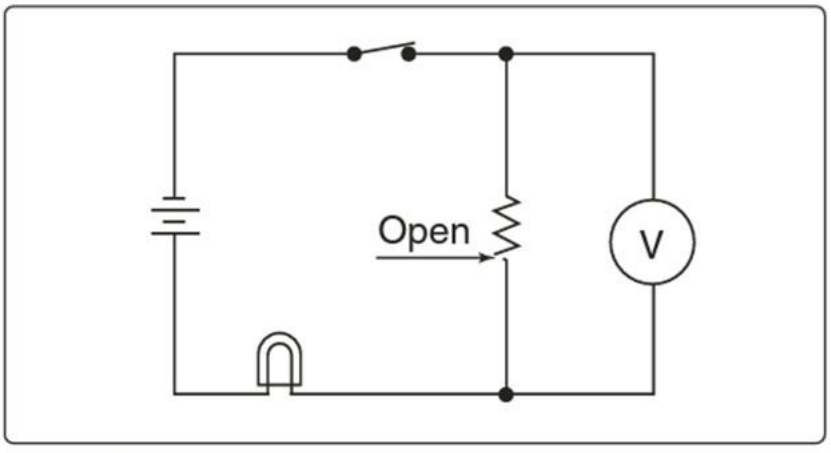

Figure 20. Circuit diagram

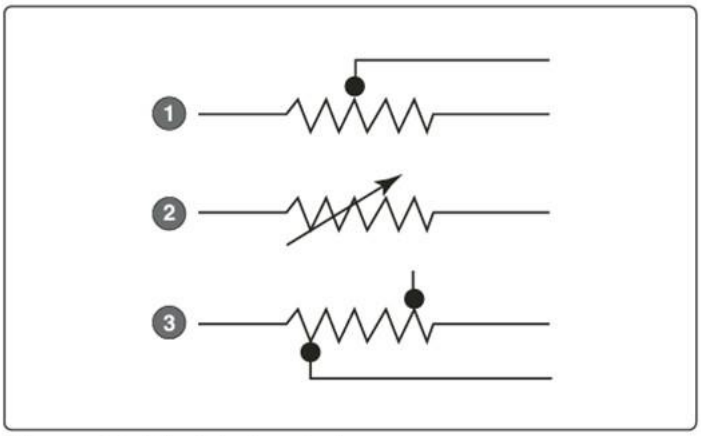

Figure 21. Electrical symbols

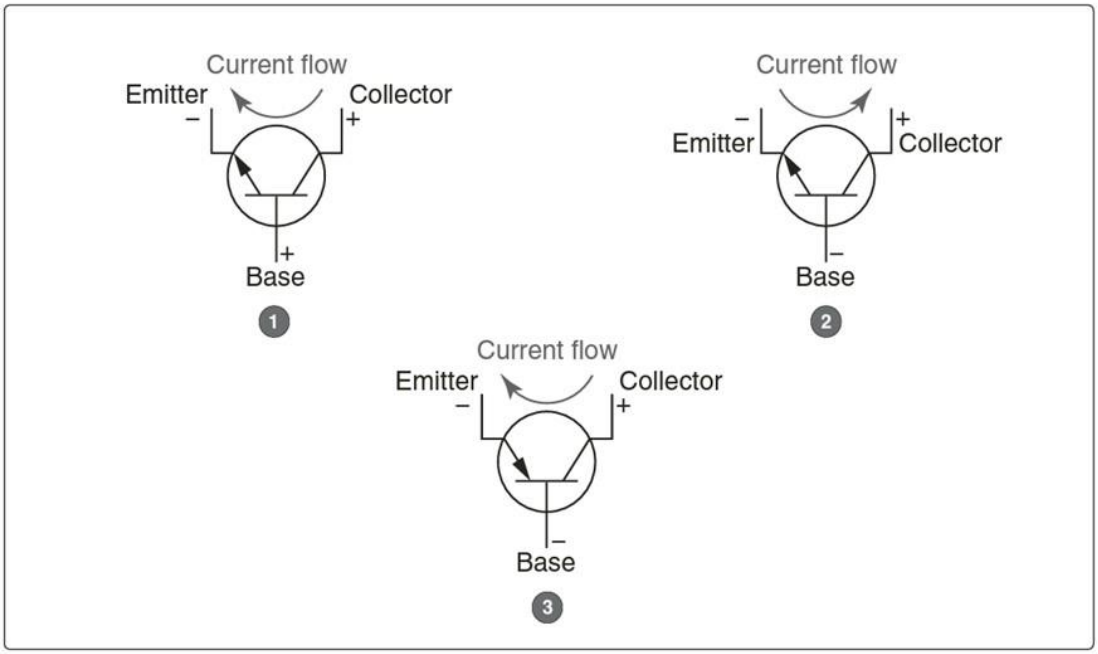

Figure 22. Transistors

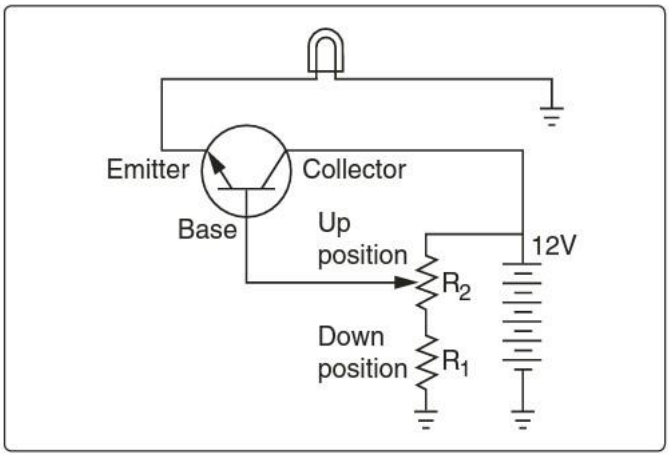

Figure 23. Transistorized circuit

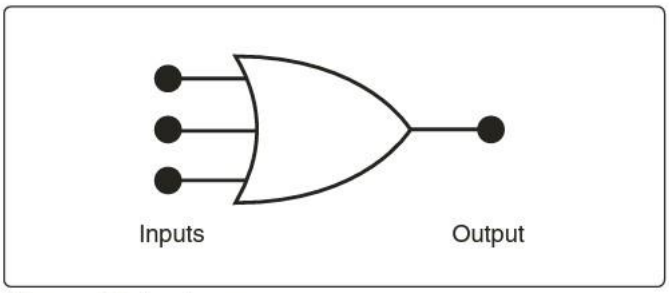

Figure 24. Logic gate

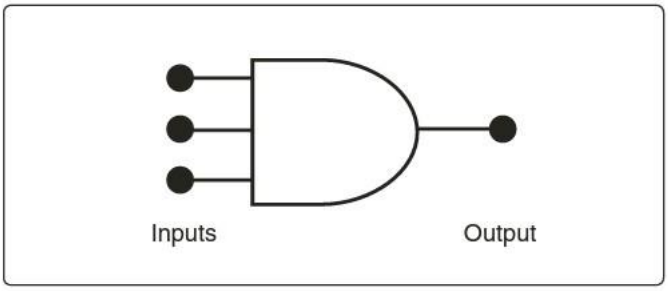

Figure 25. Logic gate

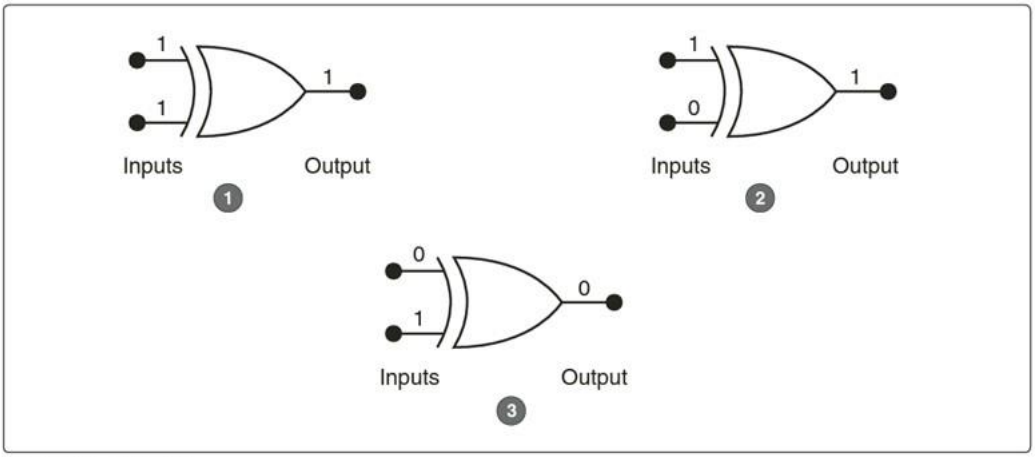

Figure 26. Logic gate

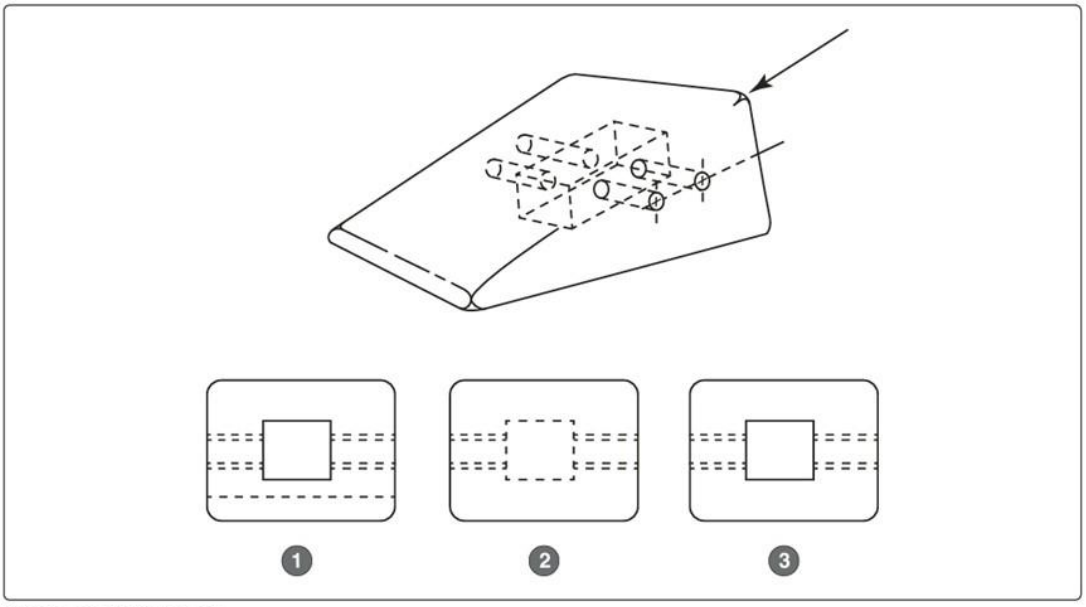

Figure 27. Object views

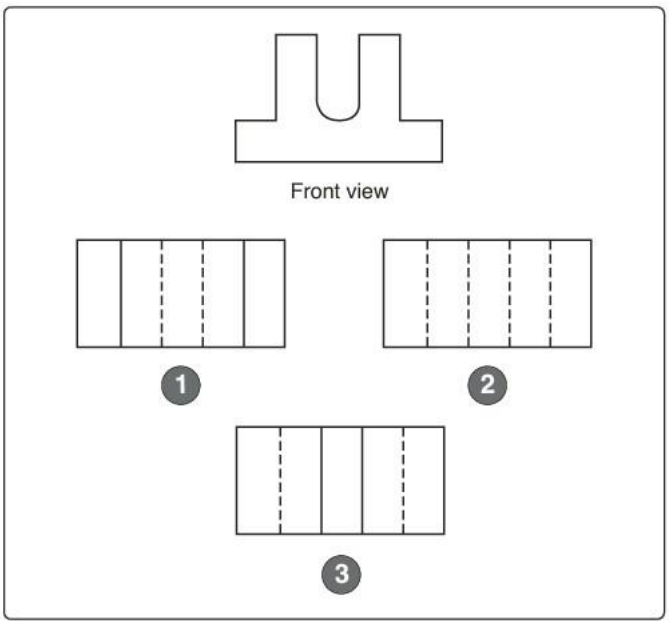

Figure 28. Object views

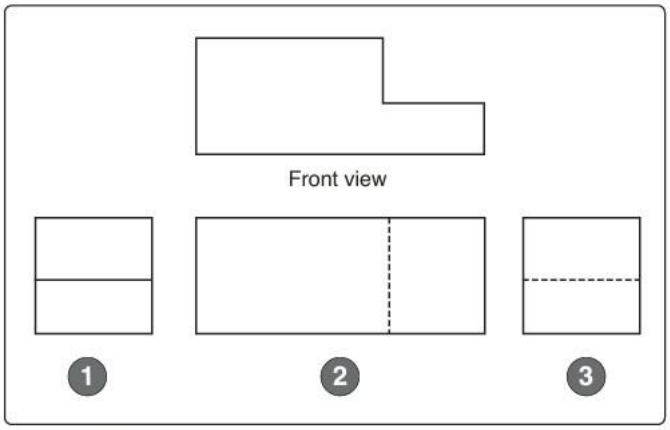

Figure 29. Object views

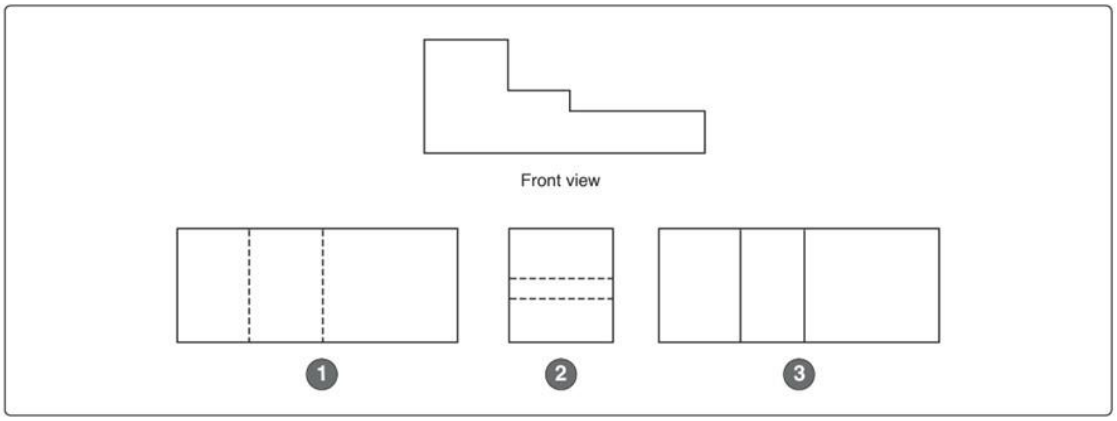

Figure 30. Object views

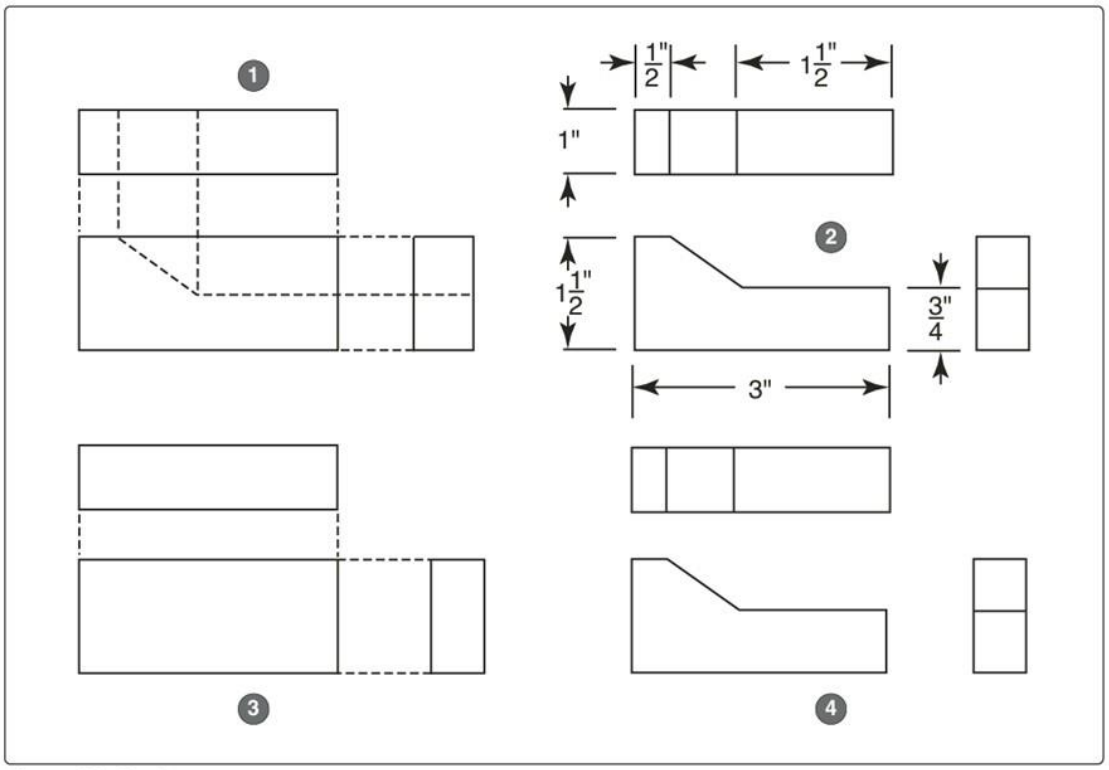

Figure 31. Sketches

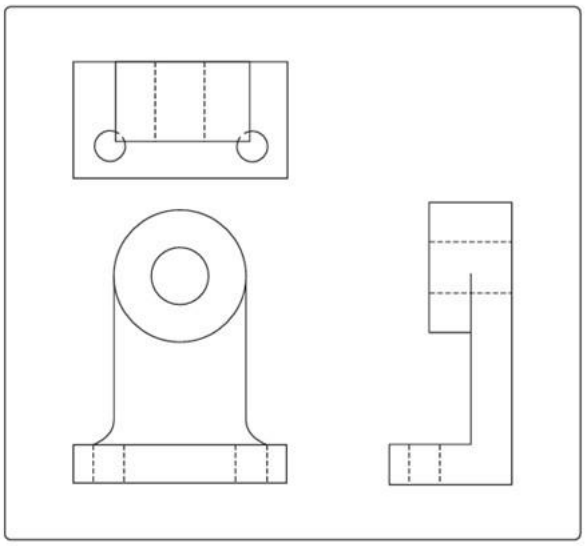

Figure 32. Sketches

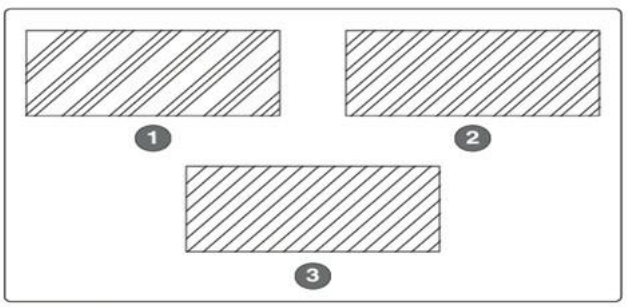

Figure 33. Material symbols

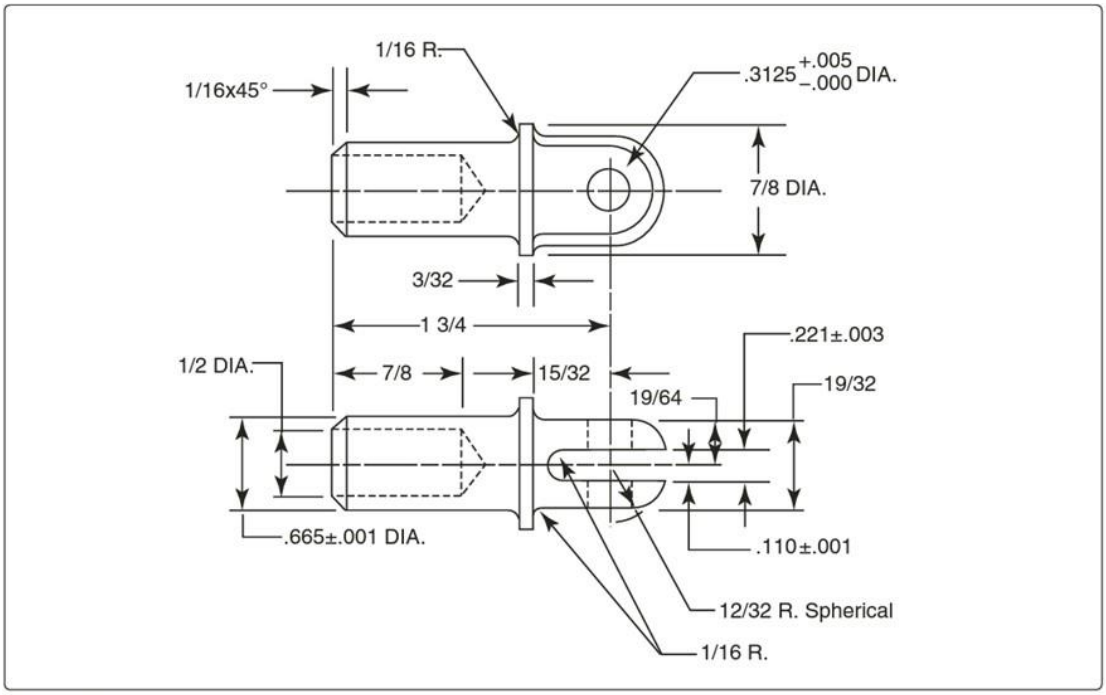

Figure 34. Aircraft drawing

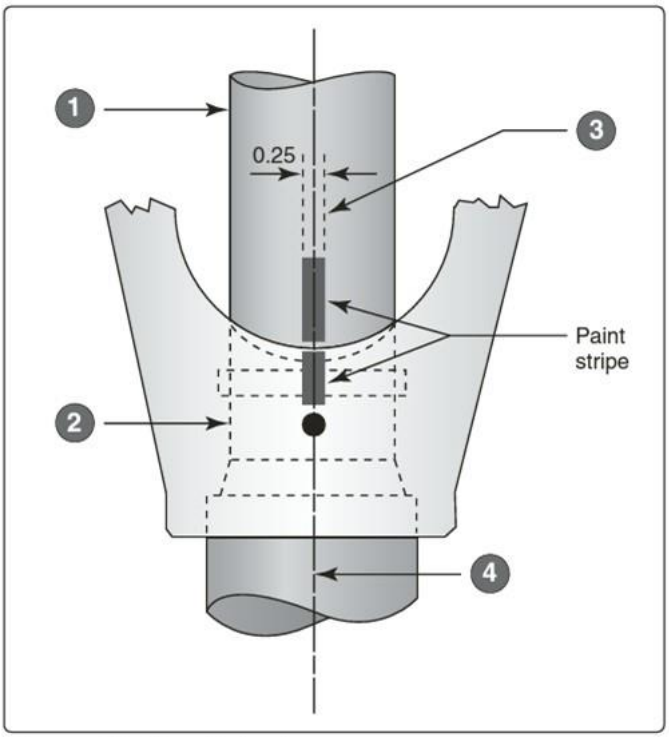

Figure 35. Aircraft drawing

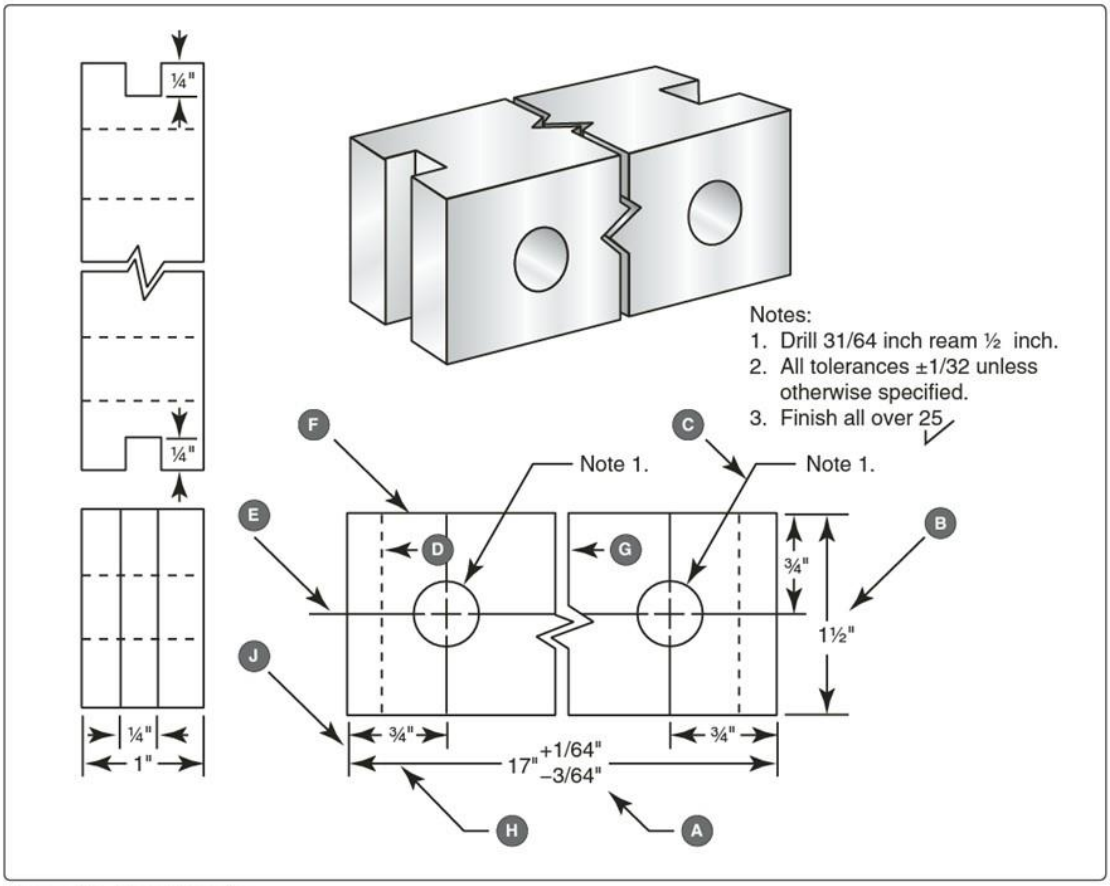

Figure 36. Aircraft drawing

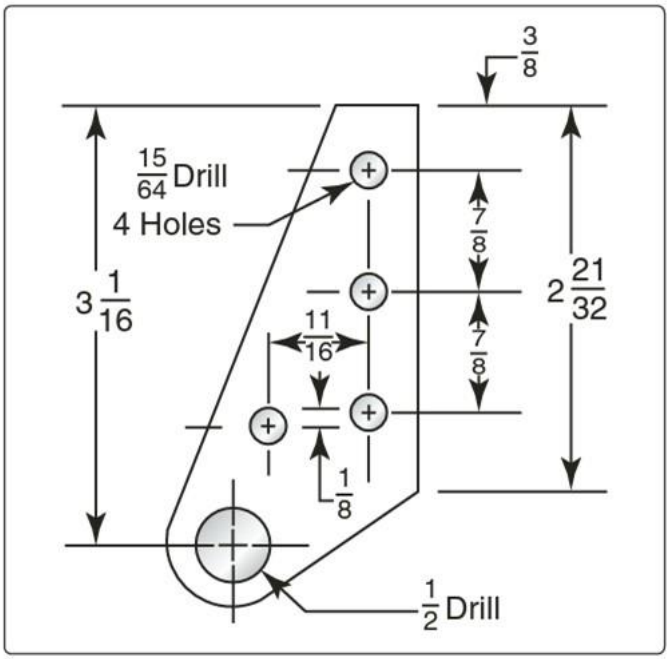

Figure 37. Aircraft drawing

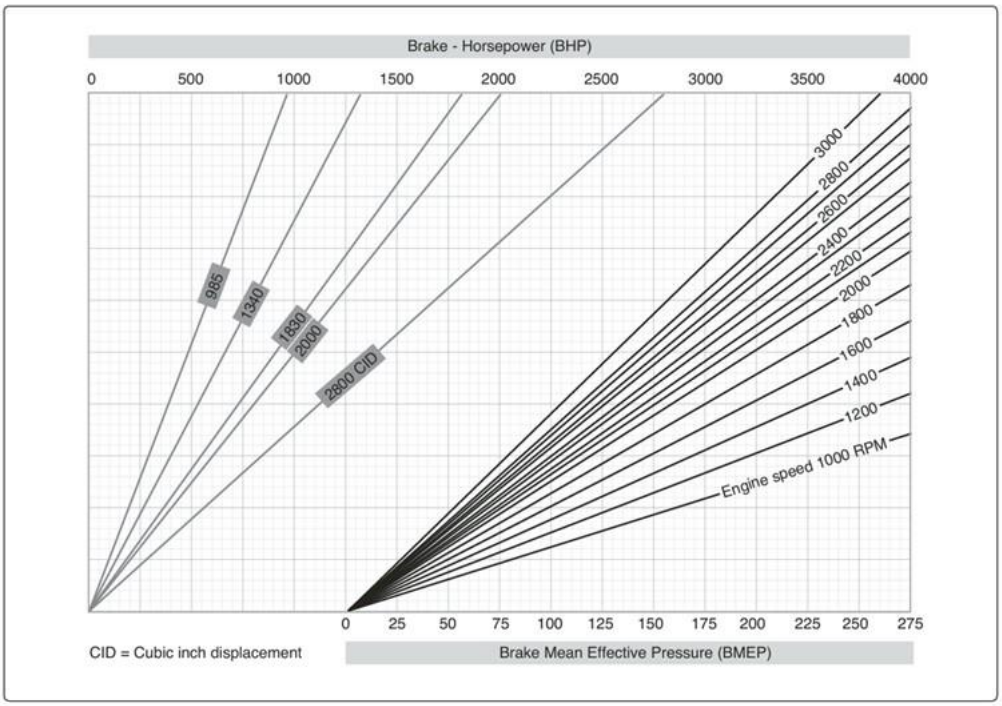

Figure 38. Performance chart

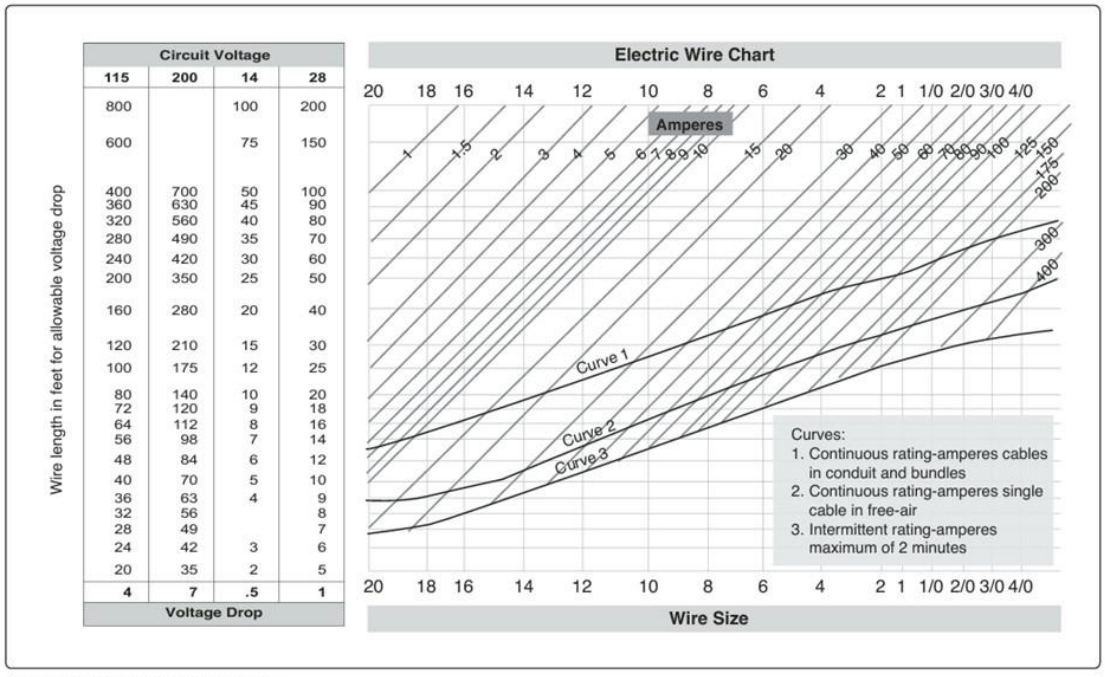

Figure 39. Electric wire chart

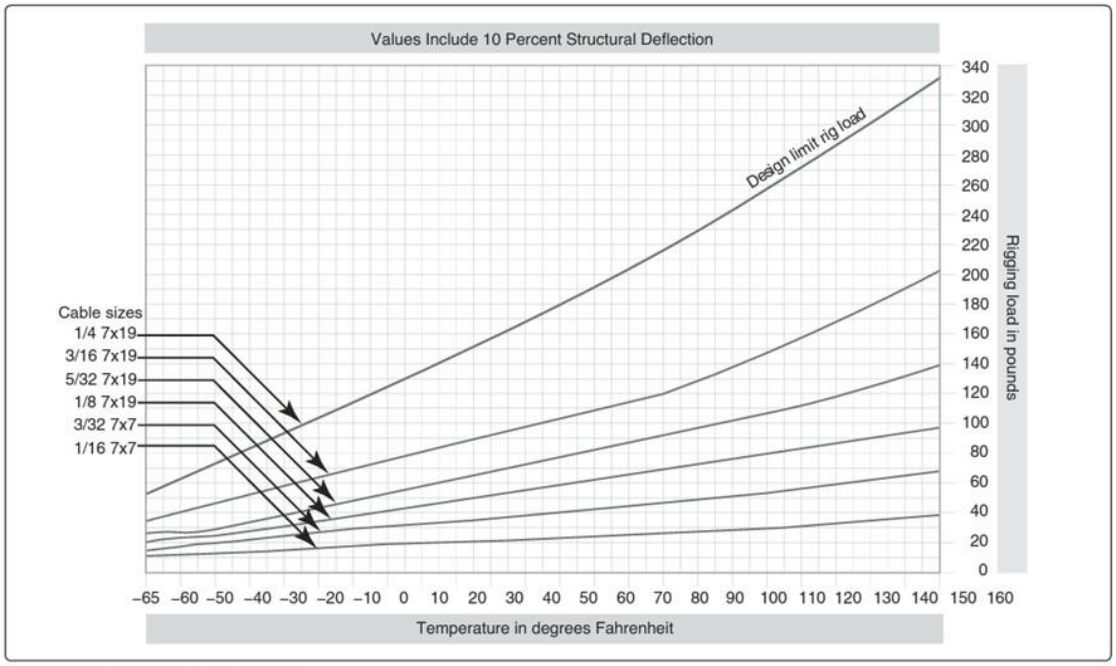

Figure 40. Cable tension chart

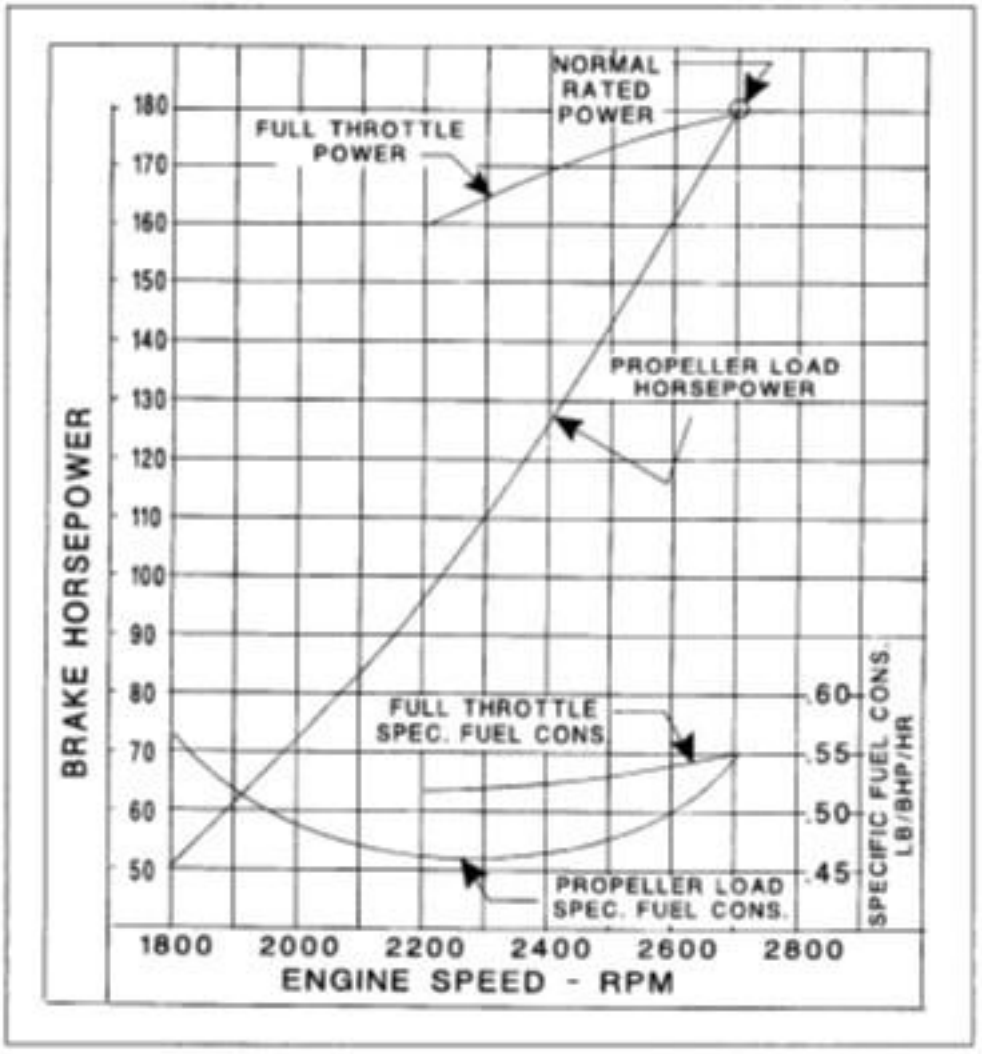

Figure 41

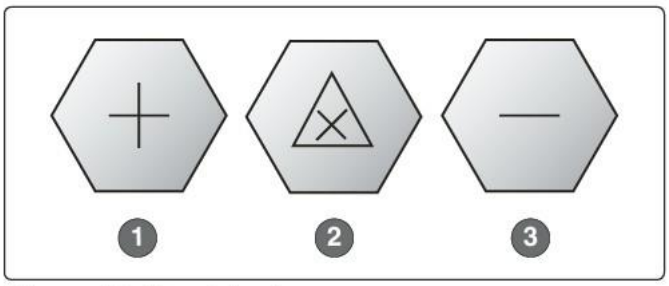

Figure 42. Aircraft hardware

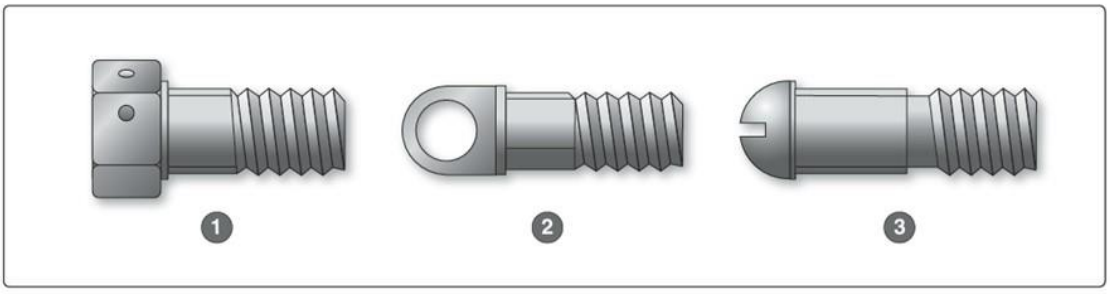

Figure 43. Aircraft hardware

Figure 44. Welds

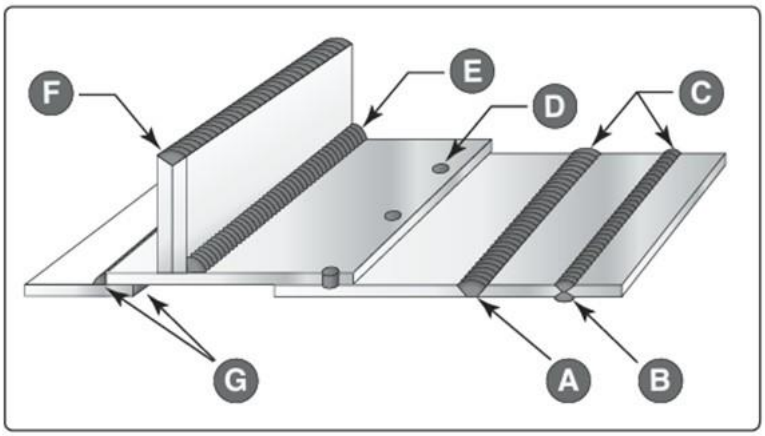

Figure 45. Welds

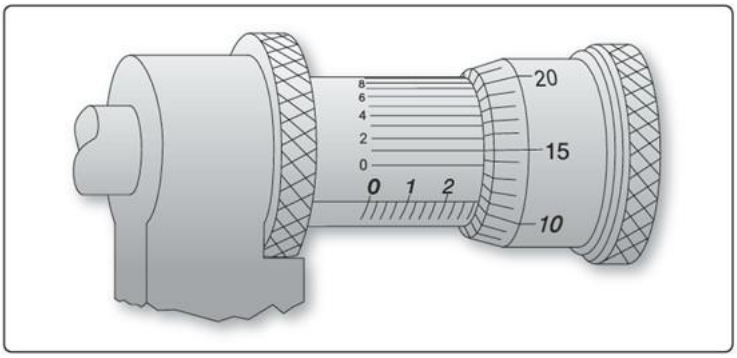

Figure 46. Precision measurement

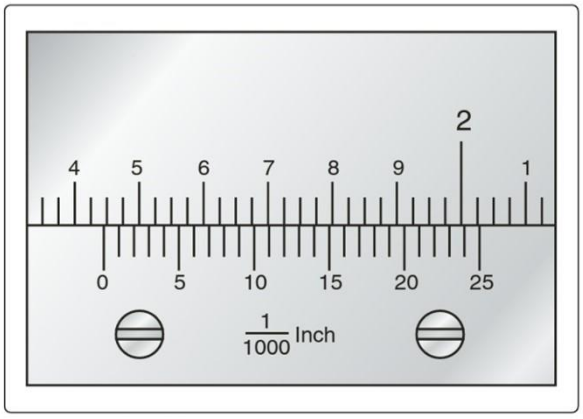

Figure 47. Precision measurement

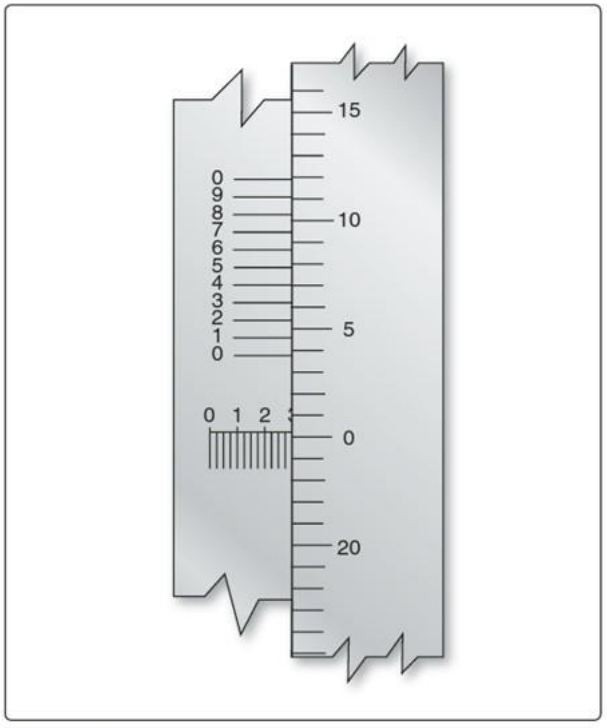

Figure 48. Precision measurement

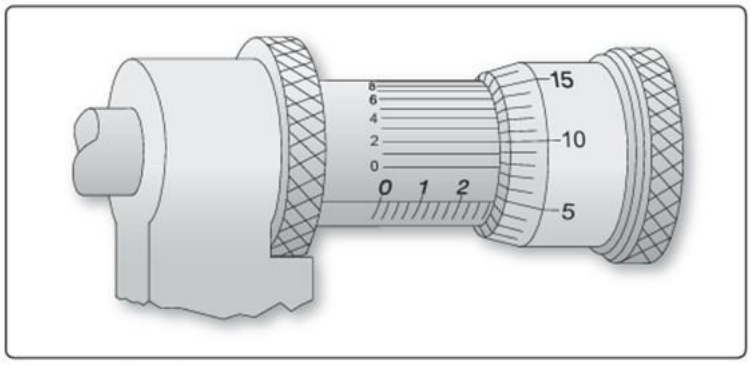

Figure 49. Precision measurement

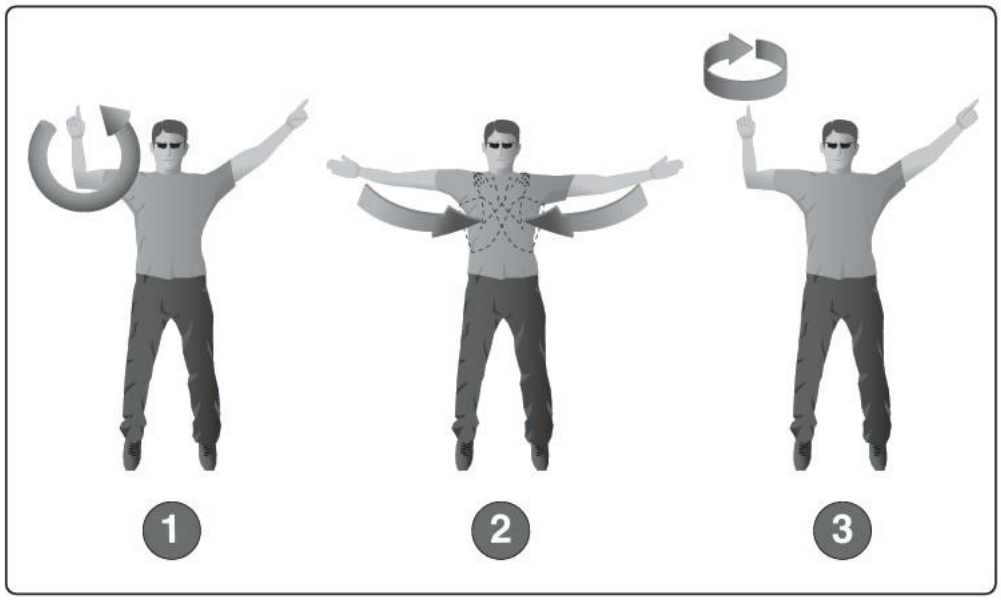

Figure 50. Marshalling signals

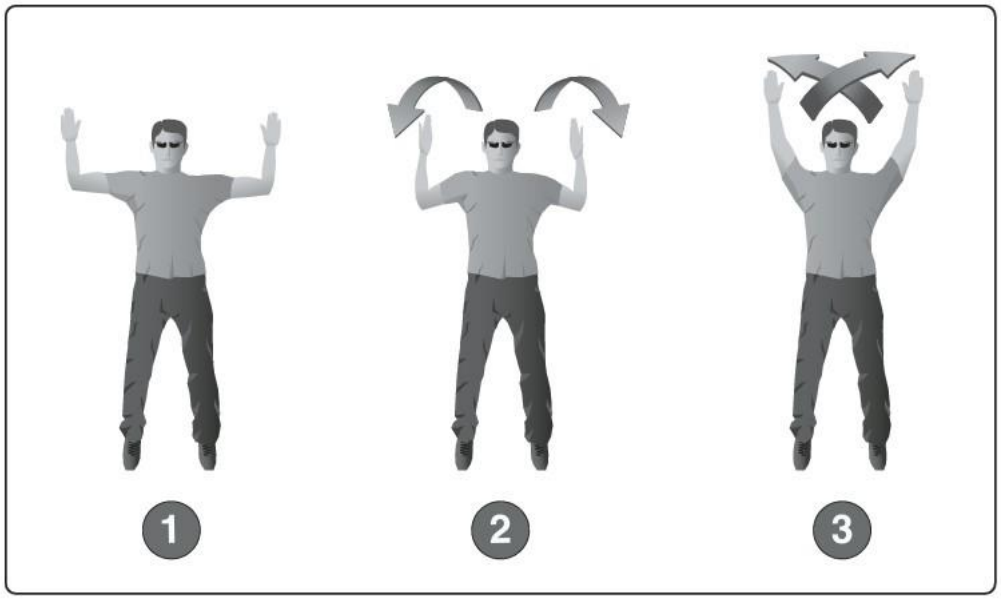

Figure 51. Marshalling signals

$$(\sqrt{(-4)^0+6+(\sqrt[4]{1296})(\sqrt{3})^2}=$$

Figure 52. Equation

$$\frac{\sqrt[2]{31}+\sqrt[2]{43}}{(17)^2}=$$

Figure 53. Equation

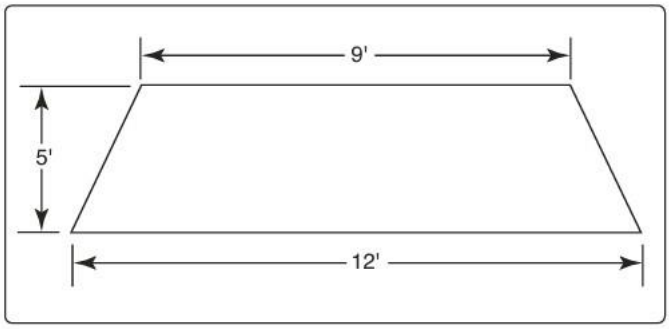

Figure 54. Trapezoid area

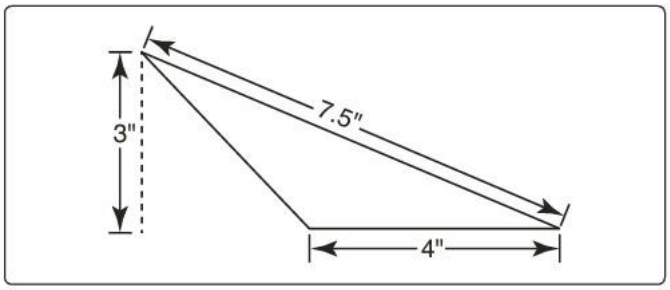

Figure 55. Triangle area

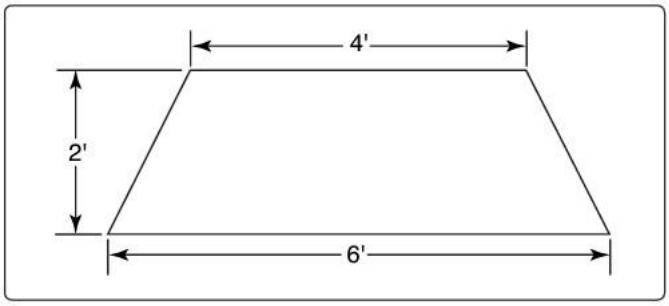

Figure 56. Trapezoid area

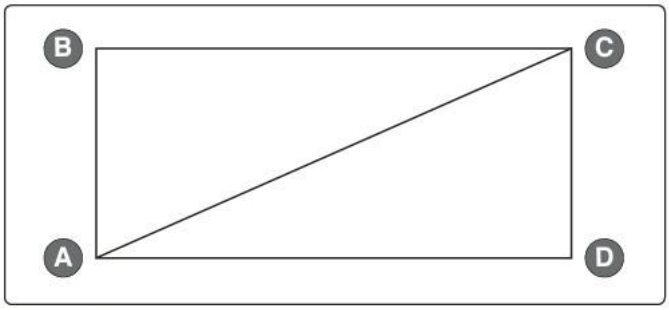

Figure 57. Triangle area

$$\frac{(-35 + 25)\ (-7) + (\pi)\ (16^{-2})}{\sqrt{25}} =$$

Figure 58. Equation

$$\frac{-4\sqrt{125}}{-6\sqrt{-36}} =$$

Figure 59. Equation

$$\frac{(-5+23)(-2)+(3^{-3})(\sqrt{64})=}{-27\div9}$$

Figure 60. Equation

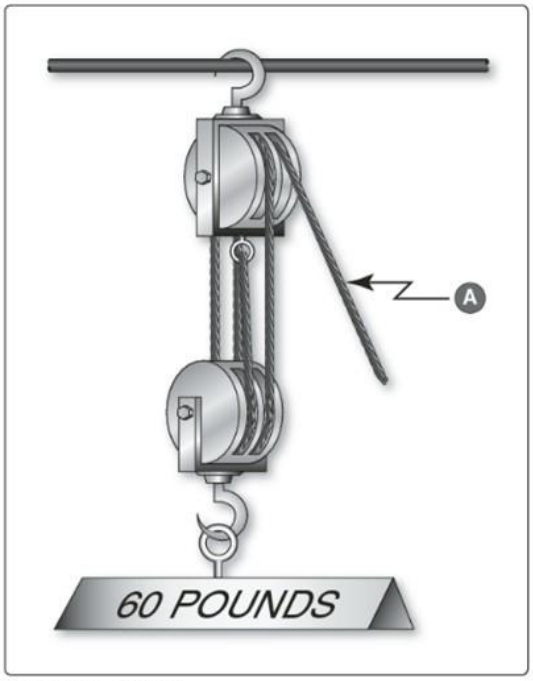

Figure 61. Physics

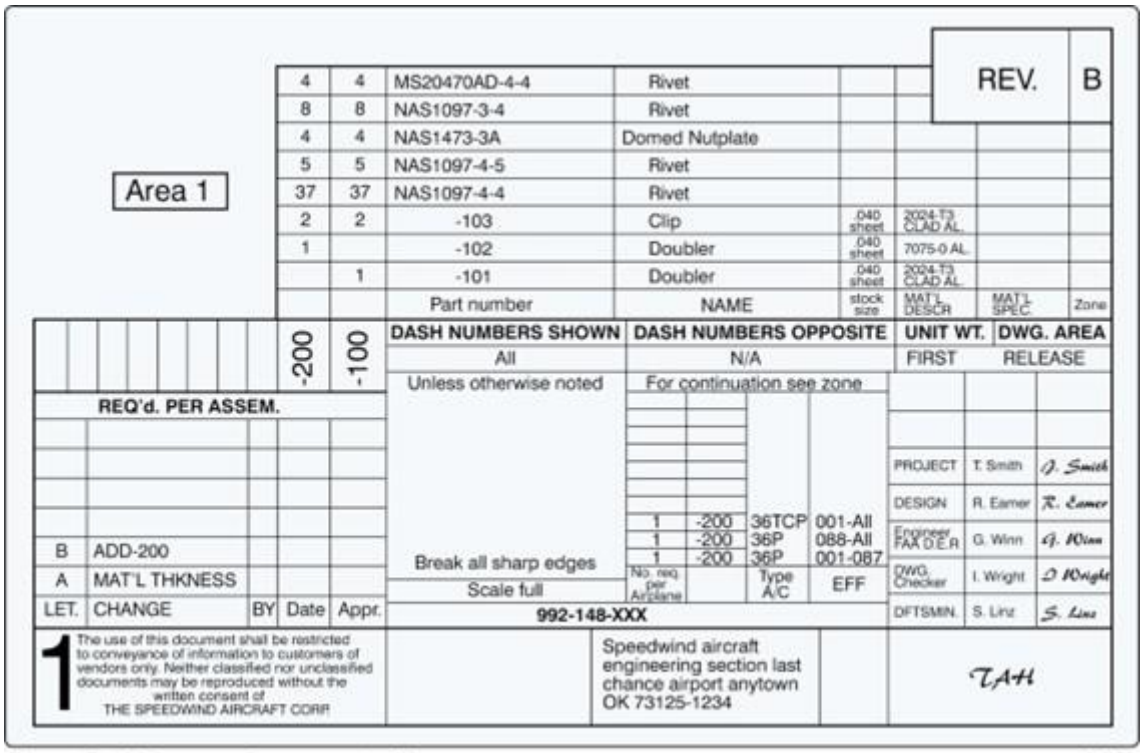

Figure 62. Maintenance data - part 1 of 3 ©ASA

AREA 2

GENERAL NOTES - 100

1. ALL BENDS +/– .5 deg.
2. All holes +/– .003.
3. Apply Alodine 1,000.
4. Prime with MIL-P-23377 or equivalent.
5. Trim S-1 C just aft of the clip at STA. 355.750 and forward of the front face of the STA. 370.25 frame and remove from the airplane.
6. Position the –101 doubler as shown. Install wet with NAS1097AD-4-4 and -4-5 rivets and a faying surface seal of PR 1,422. Pick up the rivet row that was in S-1 C and the aft rivets in sta. 370.25. Tie doubler into front frame with clips as shown using MS20470AD-4-4 rivets through the clips and the frame.
7. Install 4 NAS1473-3A nutplates with NAS1097-3-4 rivets through the skin and doubler to retain the antenna.
8. Strip paint and primer from under the antenna footprint.
9. Treat skin with Alodine 1,000.
10. Install antenna and apply weather seal fillet around antenna base.

AREA 3

GENERAL NOTES - 200

Note: P.S. = Process Specification
IAW = in accordance with

1. ALL BENDS IAW P.S. 1,000.
2. All holes IAW P.S. 1,015.
3. Heat treat –102 to –T6 IAW P.S. 5,602.
4. Alodine IAW P.S. 10,000.
5. Prime IAW P.S. 10,125.
6. Trim S-1 C just aft of the clip at STA. 355.750 and forward of the front face of the STA. 370.25 frame and remove from airplane.
7. Position the –102 doubler as shown. Install wet with NAS1097AD-4-4 and -4-5 rivets, and a faying surface seal IAW P.S. 41,255. Pick up the rivet row that was S-1 C and the aft rivets in STA. 370.25. Add two edge rows as shown. Tie doubler into front frame with clips as shown using MS20470AD-4-4 rivets through the clips and the frame.
8. Install 4 NAS1473-3A nutplates with NAS 1097-3-4 rivets through the skin and doubler to retain the antenna.
9. Strip paint and primer from under the antenna footprint.
10. Treat skin IAW P.S. 10,000.
11. Install antenna and apply weather seal fillet around antenna base.

Figure 62A. Maintenance data - part 2 of 3 ©ASA

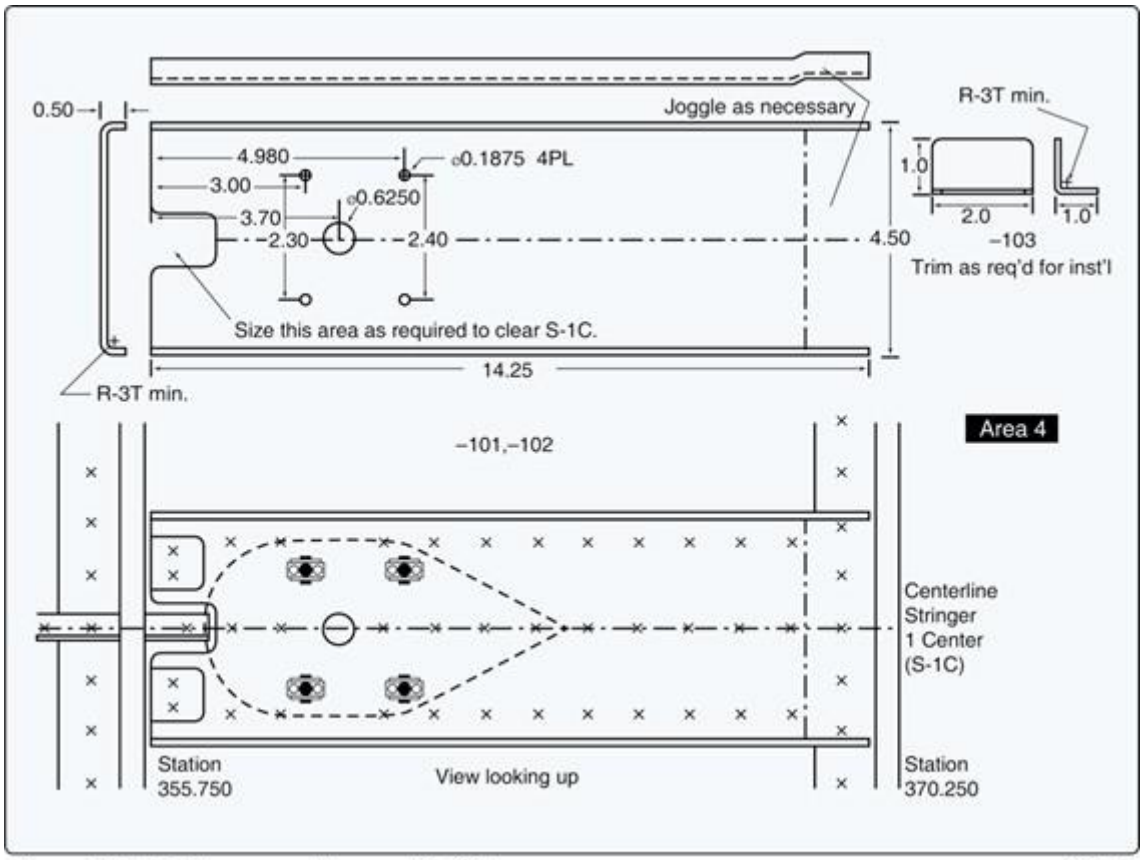

Figure 62B. Maintenance data - part 3 of 3 ©ASA

The following is the compliance portion of an Airworthiness Directive.

"Compliance required as indicated, unless already accomplished:

I. Aircraft with less than 500 hours total time in service: Inspect in accordance with instructions below at 500 hours total time, or within the next 50 hours time in service after the effective date of this AD, and repeat after each subsequent 200 hours in service.

II. Aircraft with 500 hours through 1,000 hours total time in service: Inspect in accordance with instructions below within the next 50 hours time in service after the effective date of this AD, and repeat after each subsequent 200 hours in service.

III. Aircraft with more than 1,000 hours time in service: Inspect in accordance with instructions below within the next 25 hours time in service after the effective date of this AD, and repeat after each subsequent 200 hours in service."

Figure 63. Airworthiness directive excerpt

$$R_t = E^2/P$$

Figure 64. Resistance total ©ASA

1. $3.47 \times 10^4 = 34{,}700.$
2. $2(4^{10}) = 2{,}097{,}152.$

Figure 65. Scientific notation

$$-4 + 6 + 10^3 (\sqrt{1296}) =$$

Figure 66. Equation

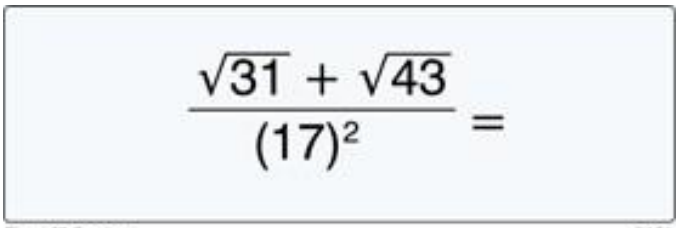

Figure 67. Equation ©ASA

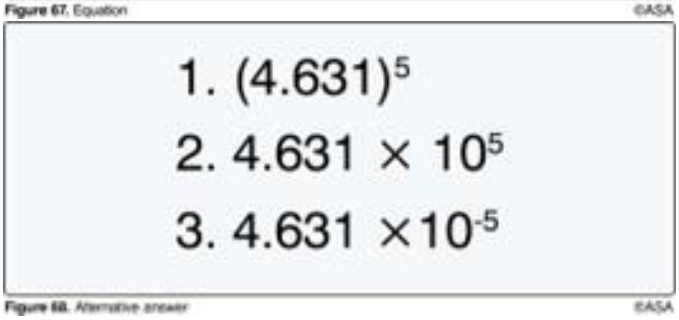

Figure 68. Alternative answer ©ASA

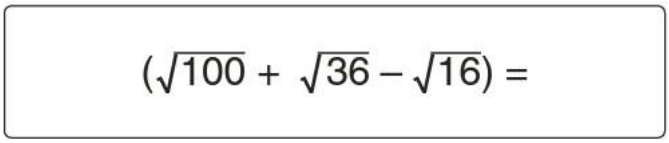

Figure 69. Equation

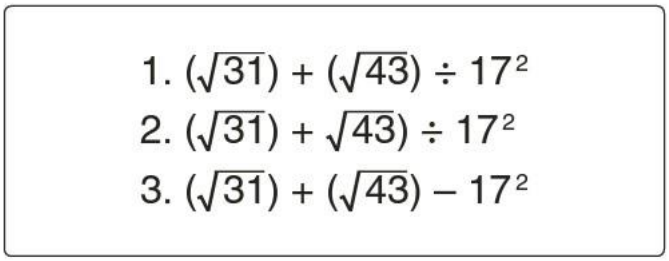

Figure 70. Alternative answer

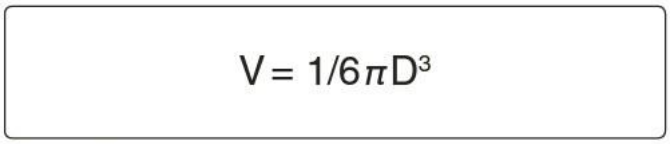

Figure 71. Volume of a sphere