

Make the following pen and ink changes to API's Aircraft Engines And Systems Student Guide.

**Page**

- 3.1-10 Change: Delete paragraph entitled "Airspeed".
- 3.1-15 Change: Question 18 should read "How does ram effect change the amount of thrust produced at subsonic and supersonic airspeeds?"
- 3.2-32 Change: Delete Question 29.
- 3.3-7 Change: Paragraph entitled "Prevention", Item 1 delete word "failure", Item 4 delete word "failure".
- 3.3-10 Change: Delete Question 11.
- 3.4-10 Change: Delete Question 1.
- 3.6-3 Change: Figure 3.6-2 "Pascal's Law", Left hand side, change "Input Piston 1" to read "Input Piston". Right hand side, change "Input Piston 2" to read "Output Piston".
- 3.6.5 Change: Top paragraph 3<sup>rd</sup> sentence should read "If the input distance is 1 inch, then the output distance is 1/10 inch."
- 3.6-15 Change: Foldout 3.6-1 Typical Hydraulic System
- Under the "D" and "R" in the diagram title insert a filter bypass around the hydraulic filter.
  - Entitle the circular component in the center of the diagram and labeled with the words "Air" and "Fluid" the "accumulator".
  - Entitle the smaller circular component to the right of the accumulator, the "hydraulic pressure gauge".
  - Entitle the largest circular component on the far right side of the diagram as the "selector control valve".
- 3.7-9 Change: Delete Question 6.
- 3.8-13 Change: Foldout 3.8-1 Typical Aircraft Fuel System
- Change the "Low Pressure Pump" to read "Low Pressure Filter"
  - Draw a line connecting the Pressurizing and Dump Valve in the top left corner with the Fuel Control Unit on the bottom left corner of the diagram.
- 3.9-17 Change: Foldout 3.9-1 Typical Lubrication System
- Draw a line connecting the Fuel Temp Switch in the top left corner with the Air Oil Cooler in the bottom left corner.

**Appendix**

Chapter 1

Page 3.A-1

Change: Delete Question 18.

Chapter 2

Page 3.A-2

Change: Question 17, change 2<sup>nd</sup> sentence to read "Secondary Air = 75% cooling, flame control and afterburner".

Change: Question 27, change 2<sup>nd</sup> sentence to read "Flame holders create local turbulence (eddies) to enable a better fuel/air mixture for combustion."

Page 3.A-3

Change: Delete Question 29.

Chapter 3

Page 3.A-3

Change: Question 10, add "Avoid abrupt changes in aircraft attitude and flight through severe weather or turbulence."

Change: Delete Question 11.

Chapter 4

Page 3.A-3

Change: Delete Question 1.

Chapter 7

Page 3.A-5

Change: Delete Question 6.

Chapter 8

Page 3.A-5

Change: Question 11 should read "Sends a pressure signal to close the dump valve and schedules fuel flow for start."

Change: Question 12 should read "At engine start, both are closed. During normal operations, dump valve is closed and pressurizing valve is open. During engine shutdown, the dump valve opens."