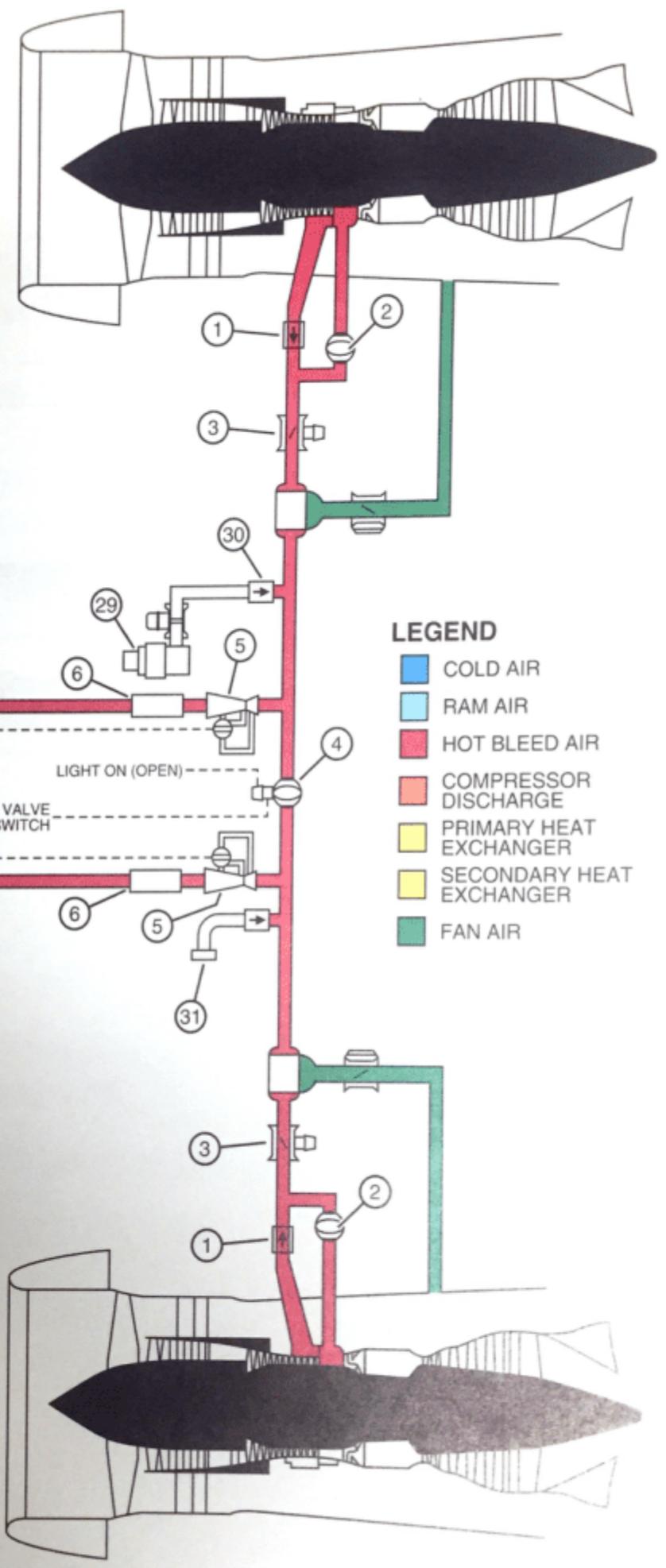


1. 7TH-STAGE BLEED-AIR CHECK VALVE
2. 12 STAGE BLEED AIR AND SOV
3. BLEED-AIR PRESSURE REGULATOR SOV
4. BLEED-AIR ISOLATION SHUTOFF VALVE
5. AIR-CONDITIONING SYSTEM SOV
6. CABIN/COCKPIT OZONE FILTER
7. REFRIGERATION UNIT
 - a. PRIMARY/SECONDARY HEAT EXCHANGER
 - b. AIR CYCLE MACHINE (ACM)
 - c. ANTI-ICE AIR MODULATING VALVE
 - d. OVERTEMPERATURE SWITCH
 - e. ACM BYPASS CHECK VALVE
 - f. ACM BYPASS SHUTOFF VALVE
 - g. COOLING FAN
 - h. BYPASS DOORS
8. TURBINE DISCHARGE WATER VALVE
9. SERVO AIR PRESSURE REGULATOR AND TORQUE MOTOR ASSEMBLY
10. CABIN/COCKPIT TEMPERATURE VALVE
11. WATER SEPARATOR
12. CABIN/COCKPIT DUCT SENSOR

SERVO
STEM



LEGEND

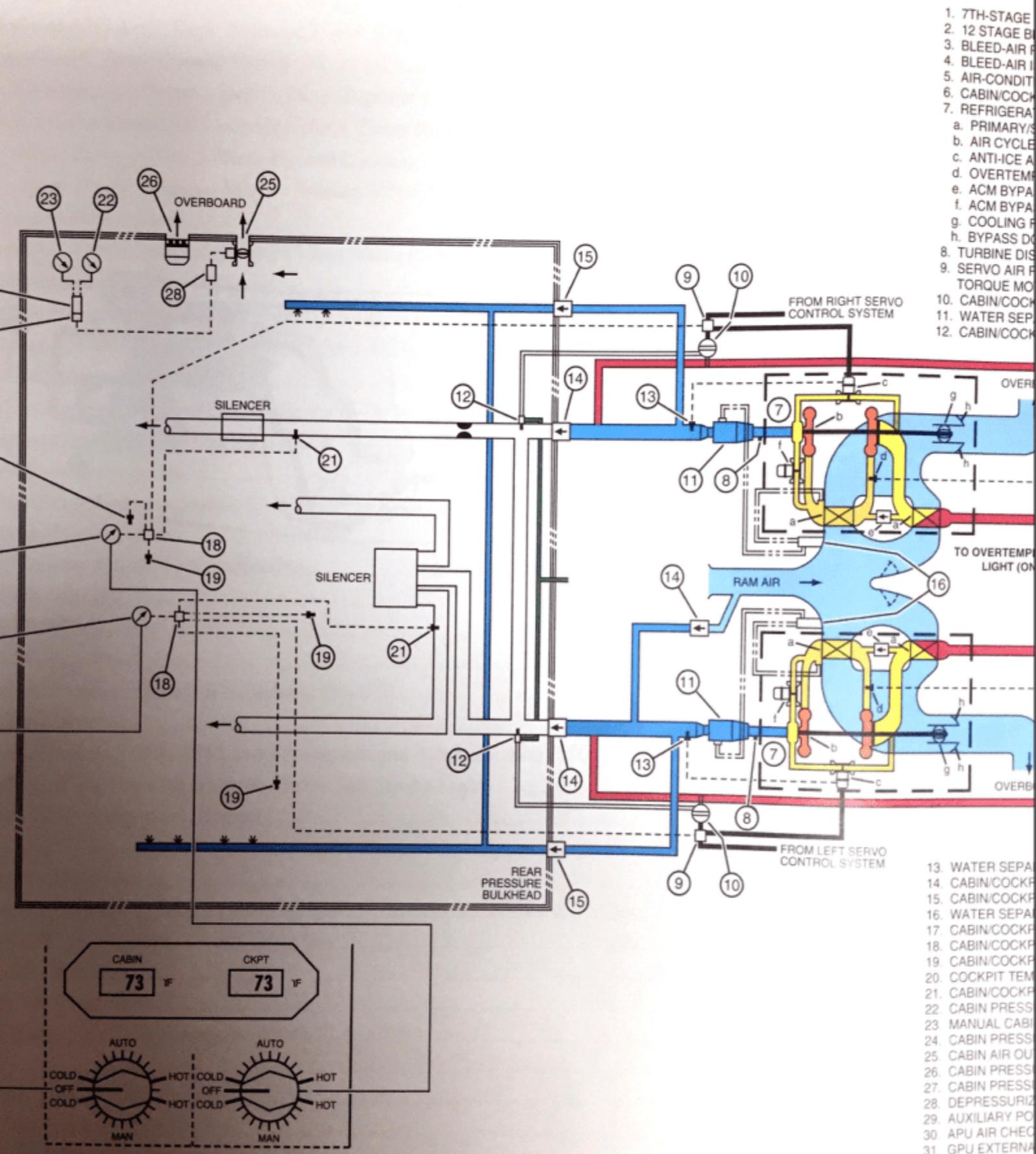
- COLD AIR
- RAM AIR
- HOT BLEED AIR
- COMPRESSOR DISCHARGE
- PRIMARY HEAT EXCHANGER
- SECONDARY HEAT EXCHANGER
- FAN AIR

SERVO
STEM

13. WATER SEPARATOR ANTI-ICE SENSOR
14. CABIN/COCKPIT AIR CHECK VALVE
15. CABIN/COCKPIT COLD AIR CHECK VALVE
16. WATER SEPARATOR ASPIRATOR
17. CABIN/COCKPIT TEMPERATURE SELECTOR
18. CABIN/COCKPIT TEMPERATURE CONTROLLER
19. CABIN/COCKPIT TEMPERATURE SENSOR
20. COCKPIT TEMPERATURE SENSOR
21. CABIN/COCKPIT DUCT SENSOR
22. CABIN PRESSURE SELECTOR
23. MANUAL CABIN PRESSURE CONTROLLER
24. CABIN PRESSURE TRANSDUCER
25. CABIN AIR OUTFLOW VALVE
26. CABIN PRESSURE SAFETY VALVE
27. CABIN PRESSURE TRANSDUCER EMI FILTER
28. DEPRESSURIZATION RATE SWITCH
29. AUXILIARY POWER UNIT (APU)
30. APU AIR CHECK VALVE
31. GPU EXTERNAL AIR CONNECTION

Conditioning System

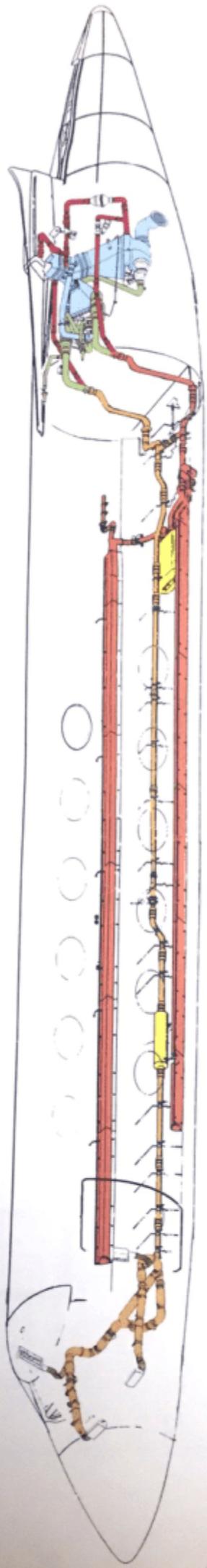
ONLY



1. 7TH-STAGE BLEED-AIR PORT
2. 12 STAGE BLEED-AIR PORT
3. BLEED-AIR PORT
4. BLEED-AIR PORT
5. AIR-CONDITIONING UNIT
6. CABIN/COCKPIT AIR CYCLE MACHINE
7. REFRIGERANT
- a. PRIMARY
- b. AIR CYCLE MACHINE
- c. ANTI-ICE AIR
- d. OVERTEMPERATURE
- e. ACM BYPASS
- f. ACM BYPASS
- g. COOLING FAN
- h. BYPASS DAMPER
8. TURBINE DISCHARGE
9. SERVO AIR PORT
10. CABIN/COCKPIT AIR CYCLE MACHINE
11. WATER SEPARATOR
12. CABIN/COCKPIT AIR CYCLE MACHINE
13. WATER SEPARATOR
14. CABIN/COCKPIT AIR CYCLE MACHINE
15. CABIN/COCKPIT AIR CYCLE MACHINE
16. WATER SEPARATOR
17. CABIN/COCKPIT AIR CYCLE MACHINE
18. CABIN/COCKPIT AIR CYCLE MACHINE
19. CABIN/COCKPIT AIR CYCLE MACHINE
20. COCKPIT TEMPERATURE
21. CABIN/COCKPIT AIR CYCLE MACHINE
22. CABIN PRESSURE
23. MANUAL CABIN PRESSURE
24. CABIN PRESSURE
25. CABIN AIR OUTLET
26. CABIN PRESSURE
27. CABIN PRESSURE
28. DEPRESSURIZATION PORT
29. AUXILIARY PORT
30. APU AIR CHECK VALVE
31. GPU EXTERNAL

Figure 21-2S. Air-Conditioning System

FOR TRAINING PURPOSES ONLY



- LEGEND**
- RAM AIR
 - BLEED AIR
 - CABIN CONDITIONED AIR
 - COCKPIT CONDITIONED AIR
 - COLD AIR
 - SILENCER

Figure 21-1S. Air Distribution System