

INDEX

- 100-hour inspections, 62–63, 110
- octane ratings, 129–130
- OEM replacement parts, 68–72, **69**
- oil (*see* lubricating systems)
- oil canning in exterior skin, 5
- oil consumption, 108, 112
- oil pressure gauges, 102–103, 105, 118, 121
- oil temperature, 5, 96, 101
- Otto, August, engine development, 77
- outflow valve, pressurization systems, 252
- overboosting the engine, 101–102, 146, 150
- overflow drains, 134–135
- overhaul (*see* engines)
- overrunning clutch for starter motor, 183–184
- overvoltage protection, 174

- p-leads, magnetos, 89, 106
- paint blisters, peeling, 5
- parallel circuits, 152
- parts manufacturer approval (*see* PMA replacement parts)
- Pascal, Blaise, 269
- pelorus, magnetic compass, 56
- performance number system, fuels, 130
- pistons, 79, 80, 111, 144–145
- pitch control, propellers, 203
- pitch distribution, propellers, 202–203
- pitot tube, 35–37, **37**
- pitot-static system, 27–30
 - airspeed indicators, 27–30, **29, 30**
 - altimeters, 30–34, **32, 33**
 - blocked pitot tube, 36
 - blocked pitot tube, airspeed indicator, 28
 - blocked static port, airspeed indicators, 28–29
 - head pressure, 36–37
 - icing, blocked pitot tube, 28, 36
 - pitot tube, 35–37, **37**
 - preflight inspection, 38
 - ram vs. ambient (static) air pressure, 36–37
 - static port, 37–38
 - vertical velocity indicator (VVI), 35, **35, 36, 39**
- PMA replacement parts, 68–72
- pneumatic de-icing systems, 262–266, **263, 264**
- pneumatic systems, 281–288
 - dry-pump systems, 283
 - pneumatic systems (*Cont.*):
 - failure of pneumatic system, 288
 - filters, 285, 286–287, 288
 - gyroscopic instruments, 285, 286
 - preflight inspections, 286
 - pressure-pump pneumatic systems, 284–285
 - preventive maintenance, 286–287
 - pump failure, 288
 - standby vacuum system (SVS), 288
 - troubleshooting, 287–288
 - vacuum-driven pressure systems, 283–284, **283, 284**
 - venturis, 281
 - wet-pump systems, 281–283
- position lights, **8, 9**
- power stroke, 80, 87, 144
- powerplants (*see* engines)
- precession
 - gyroscopic instruments, 44, 45, **48, 288**
 - heading indicators, 41, 50
- preflight inspections
 - air conditioning, 246
 - airframe inspection, 1–8
 - airspeed indicators, 38
 - altimeters, 38
 - antennas, 23–26
 - attitude indicators, 39–41, **40, 45, 47**
 - cooling systems, 106
 - de-icing systems, 261, 263–264
 - emergency locator transmitter (ELT), 20–23
 - engines, 105–108
 - gyroscopic instruments, 45–49
 - heading indicators, 47, 49
 - heaters, 242
 - hydraulic systems, 276–277
 - interior of aircraft, 13–14
 - magnetos, 106–108
 - pitot-static systems, 38
 - pneumatic systems, 286
 - pressurization systems, 254–255
 - propellers, 211–212, 216–217
 - tires, 228–229
 - transparencies (windows), 14–20
 - turn indicators, 49
- preignition problems, 85–87, 90–91, 109
- pressure (fluid) cooling, 83, **84**
- pressure control valves, hydraulic systems, 273
- pressure-feed fuel systems, 132–133, **132**
- pressure-pump pneumatic systems, 284–285