

- pressurization systems, 247–256
 controller face, **250**
 delta p conditions, 248
 failure of pressure systems, 250–251,
 252–254
 fixed isobaric systems, 248
 maximum pressure differential,
 249–251
 negative delta p conditions, 248
 operational considerations, 254–255
 outflow valve, 252
 preflight inspections, 254–255
 rapid depressurization, 252–254
 standard atmospheric pressure chart,
251
 temperature of cabin, 251
 troubleshooting, 255–256
 variable isobaric systems, 249–251
- preventive maintenance, 61–75
 100-hour inspections, 62–63, 110
 airworthiness, 67–68
 alternators, 194
 annual inspections, 62
 brakes, 237–238
 de-icing systems, 262, 265–266
 engine overhauls, 63–67, **63**
 engines, 110–113
 FARs regarding maintenance, 62
 gyroscopic instruments, 49–50
 hydraulic systems, 277
 lead-acid batteries, 191–192
 life expectancies of typical components,
 61–62
 lighting systems, 12–13
 nickel-cadmium (NiCd) batteries,
 192–194
 oil and lubricating systems, 121–123
 pneumatic systems, 286–287
 preventive maintenance guidelines,
 FARs, 72, 73–47
 propellers, 212–213, 214–215
 repairs, unscheduled maintenance,
 72, 75
 replacement parts, 64, 68–72
 required maintenance, 62
 starters, 194–195
 supplemental type certificates (STCs),
 68
 tires, 229
 type certificate data sheets (TCDSs), 68
- primary bus, 152, **153**
 prop face, propellers, 202
- propellers, 80, 101, 201–217
 airfoil properties of propellers, 201,
 202, **203**, 215
 angle of attack, 202
 balancing, 213
 blade angle, 202, **209**
 blade angle control, 205–208
 blade number, 202
 blade shake, 211, 216
 camber, 202
 centrifugal force, 215
 climb comparison, fixed-pitch vs.
 constant-speed, 205
 constant-speed propellers, 204, 210
 controlling propellers, 210
 corrosion, 215
 cracks, 215
 cranking or turning a propeller by
 hand, 212
 electrothermal propeller de-icing,
 258–262, **259**, **260**
 failure, in flight, 217
 FARs regarding props, 213–214
 feathering, 208–210, 211
 fixed-pitch propellers, 203–204, 210
 governor, 206–208, **206**
 ground clearance minimums, 214
 HOTPROP system, 258–262
 life expectancy, 61
 lubrication, 214
 parts of propeller, **205**
 pitch control, 203
 pitch distribution, 202–203
 preflight inspections, 211–212,
 216–217
 preventive maintenance, 212–213,
 214–215
 prop face, 202
 pusher propellers, 201–202
 ratings, 213
 repair tolerances, 214
 revolution per minute (RPM), 202,
 207–208, 210, 213
 runup procedures, 211–212
 safety around propellers, 216–217
 size of propeller, 202, 214
 thrust, 215
 torque, 215
 tractor propellers, 201–202
 troubleshooting, 210–211
 vibration, 214
 pusher propellers, 201–202