



Contents

Ground School.....A

Basics of Turning an Airplane

- In this section.....A-1
- Turning Basics.....A-2
- Aileron Effects on Turn Size and Elevator.....A-3
- Using Neutral as a Reference.....A-4
- Consistent L/R Turns - Turn Correction.....A-5

Straight Lines and Course Adjustments.....A-6

- In this section.....A-7
- Aileron Bump Input and Effects.....A-8
- Bump Perspectives.....A-9
- Bumps in Typical Flight Situations.....A-10
- Orientation and the Bump.....A-11

Altitude Control.....A-12

- In this section.....A-13
- Initial Throttle Applications.....A-14
- Emergency Altitude Recovery.....A-15

Improving Performance.....B-16

- In this section.....B-17
- Adverse Yaw Basics.....B-18
- Coordinated Banks and Turns.....B-19
- Coupling Hookup.....B-20
- Coupling/Mixing Setup.....B-21

- Coupling/Mixing for the Future.....B-22, 23
- Common Coupling/Mixing Q's.....B-24, 25
- Thicker Control Surfaces.....B-26–29

Learning to Fly.....C-30

- Introduction.....C-31, 32
- Maximizing Practice Time.....C-33, 34
- Transmitter Handling.....C-35

Control Inputs.....C-36

- In this section.....C-37
- Bump Input.....C-38
- Procedure Turn Aileron Bank.....C-39
- Procedure Turn Elevator.....C-40
- Procedure Turn Elevator Adjustments.....C-41
- Procedure Turn Correction.....C-42
- Full Pro. Turn and Plan B Inputs.....C-43
- Procedure Turn Restart.....C-44
- Bump and Pro. Turn Exercise.....C-45, 46
- Tightening Turns.....C-47

First Flight Positioning.....D-48

- In this section.....D-49
- Comfortable View Warmup.....D-50
- Wind, Projecting Flight Paths, and
- Object as a Whole.....D-51, 52
- Body Rotation and L/R Coordination.....D-53
- Push away/Pull in Technique.....D-54
- Oscillation Comment.....D-55

Contents



Stage 1: Landing Pattern.....E-56

- In this section.....E-57
- Overflying Runway Centerline.....E-58
- Lineup Perspectives.....E-59
- Base Leg Turn Target.....E-60–64
- Base Leg Turn Correction.....E-65
- Landing Pattern Summary.....E-66, 67

Stage 2: Lowering Pattern.....F-68

- In this section.....F-69
- Lowering Pattern and Throttle.....F-70
- Low Pass Go Around.....F-71
- Low Pass Setup Sequence.....F-72
- First Landing.....F-73

Takeoff.....G-74

- In this section.....G-75
- Standard Takeoff Sequence.....G-76
- Entering the Pattern.....G-77, 78
- Establishing a Level Pattern.....G-79, 80
- Short Field Takeoff and Lower Pattern.....G-81
- Trimming Rules-of-thumb.....G-82–84
- Pre-Takeoff Exercise.....G-85

Landing Setup.....H-86

- In this section.....H-87
- Wind Effects Upon Landing Approach.....H-88
- Landing Setup Sequence.....H-89
- Base Leg Turn.....H-90

- Approach.....H-91
- Idle.....H-92
- Landing by the Numbers.....H-93, 94
- Landing Quiz.....H-95

Overshoot / Undershoot.....I-96

- In this section.....I-97
- Go Around.....I-98
- Overshoot.....I-99
- Overshoot Compensation.....I-100
- Undershoot and Powered Approach.....I-101

Landing Flare.....J-102

- In this section.....J-103
- Standard and Ballooned Flare.....J-104
- High Flare and Bounce.....J-105

Solo.....K-106

- Planning and Preparation.....K-107
- Solo Takeoff.....K-108
- Solo Agenda.....K-109–112
- Solo Checklist and Conclusion.....K-113