

# Contents



## Preliminary

Sequencing Maneuver Steps.....	vi
Phase II Base Maneuvers Group.....	vii
Aresti Symbol Basics.....	viii

## Intermediate Airplane Guidelines.....A

In this section.....	A-1
Flight Characteristics.....	A-2
Design Features.....	A-3

## Improving Performance.....A-4

In this section.....	A-5
Wing Incidence Pitch Stability.....	A-6 & 7
<input type="checkbox"/> Wing Incidence Installation.....	A-8
Common Incidence Questions.....	A-9
<input type="checkbox"/> Propwash and Engine Right Thrust.....	A-10
<input type="checkbox"/> P-factor and Engine Down Thrust.....	A-11
<input type="checkbox"/> Balancing for Neutral Stability.....	A-12
All Setup Rules-of-thumb.....	A-13

## Getting Airborne.....B-14

In this section.....	B-15
<input type="checkbox"/> Parallel Positioning and Targets.....	B-16
<input type="checkbox"/> Arriving at Show Center Parallel.....	B-17

## Refined Rolls.....C-18

In this section.....	C-19
<input type="checkbox"/> Horizontal Roll Sequence.....	C-20
<input type="checkbox"/> Building a Good Start.....	C-21

<input type="checkbox"/> Timing the Bump of Down.....	C-22
<input type="checkbox"/> Horizontal Roll Warmup.....	C-23
<input type="checkbox"/> Building a Horizontal Roll.....	C-24
<input type="checkbox"/> Consecutive Rolls Sequence.....	C-25
<input type="checkbox"/> Building Consecutive Rolls.....	C-26
<input type="checkbox"/> 4-Point Roll Sequence.....	C-27
<input type="checkbox"/> Building a 4-point Roll.....	C-28
All Roll Processes.....	C-29

## Symmetry of Loops and Lines.....D-30

In this section.....	D-31
Anatomy of a Pinched Loop.....	D-32
<input type="checkbox"/> Floating Over the Top.....	D-33 & 34
<input type="checkbox"/> Immelmann Sequence.....	D-35
<input type="checkbox"/> Reverse Immelmann Sequence.....	D-36
<input type="checkbox"/> Half Cuban 8 Sequence.....	D-37
<input type="checkbox"/> Holding the 45.....	D-38
<input type="checkbox"/> Half Reverse Cuban 8 Sequence.....	D-39
<input type="checkbox"/> Holding the 45.....	D-40
<input type="checkbox"/> Balanced 45s.....	D-41
Summary of Refined Cubans.....	D-42 & 43

## Rudder Applications.....E-44

In this section.....	E-45
X-wind (crosswind) Drift Loop.....	E-46
X-wind Drift Turnaround.....	E-47
Escalating X-wind Drift Scenarios.....	E-48
Basic X-wind Rudder Correction.....	E-49
Stock X-wind Corrections.....	E-50 & 51

# Contents



## Rudder Cont.: Half Cuban 8

X-wind Corrections.....	E-52
In this section.....	E-53
<input type="checkbox"/> Anticipating Wind Corrections.....	E-54
Correcting Medium X-wind	
<input type="checkbox"/> Blowing AWAY.....	E-55
<input type="checkbox"/> Other End of Field.....	E-56
<input type="checkbox"/> P-factor Influence.....	E-57
<input type="checkbox"/> Other End of Field.....	E-58
<input type="checkbox"/> Medium X-wind Blowing IN.....	E-59
<input type="checkbox"/> Other End of Field.....	E-60
<input type="checkbox"/> Light and Strong X-wind Corrections.....	E-61

## Half Reverse Cuban 8

X-wind Corrections.....	E-62
In this section.....	E-63
Reverse Perspective.....	E-64
Stock X-wind Corrections.....	E-65
<input type="checkbox"/> Determining Rudder Direction.....	E-66
Correcting Medium X-wind	
<input type="checkbox"/> Blowing IN.....	E-67
<input type="checkbox"/> Other End of Field.....	E-68
<input type="checkbox"/> Medium X-wind Blowing AWAY.....	E-69
<input type="checkbox"/> Other End of Field.....	E-70
<input type="checkbox"/> Light and Strong X-wind Corrections.....	E-71

## Center Maneuvers

X-wind Corrections.....	E-72
<input type="checkbox"/> Full Cuban 8 X-wind Warmup.....	E-73
<input type="checkbox"/> Full Cuban 8 X-wind Corrections.....	E-74
<input type="checkbox"/> Full Reverse Cuban X-wind Warmup.....	E-76
<input type="checkbox"/> Full Reverse Cuban Wind Corrections.....	E-75
<input type="checkbox"/> Inside Loop X-wind Correction.....	E-77

## P-factor Corrections.....E-78

In this section.....	E-79
Basic P-factor Rudder Correction.....	E-80
<input type="checkbox"/> Half Cuban P-factor Correction.....	E-81
<input type="checkbox"/> Loop and Reverse Cuban	
<input type="checkbox"/> P-factor Corrections.....	E-82
<input type="checkbox"/> Float and Trim Influences.....	E-83
<input type="checkbox"/> Negative P-factor.....	E-84
<input type="checkbox"/> Inside-Outside Cuban 8.....	E-85
<input type="checkbox"/> Quartering X-wind Corrections.....	E-86
<input type="checkbox"/> Light and Variable X-winds.....	E-87

## Sequence Practice Outlines.....F-88

Initial Learning Phase.....	F-89
Practice Time.....	F-90
Practice Content.....	F-91
<input type="checkbox"/> Symmetry Practice Outline.....	F-92
<input type="checkbox"/> P-factor Outline.....	F-93
<input type="checkbox"/> AWAY X-wind Outline Cubans and Loops.....	F-94
<input type="checkbox"/> AWAY X-wind Outline Reverse Cubans.....	F-95
<input type="checkbox"/> IN X-wind Outline Cubans and Loops.....	F-96
<input type="checkbox"/> IN X-wind Outline Reverse Cubans.....	F-97
<input type="checkbox"/> Turnaround Wisdom.....	F-98
<input type="checkbox"/> Round Loops in Wind.....	F-99
<input type="checkbox"/> Throttle Reductions.....	F-100 & 101
Conclusion.....	F-101