



Private Pilot Maneuvers: Cessna 172

*Pre-Maneuver Checklist: (ABC's)

| | |
|----------------|---------------|
| Altitude | MRA or higher |
| Boost Pump | As desired |
| Carb Heat | As desired |
| Gas | Both |
| Undercarriage | Down/Locked |
| Mixture | Set |
| Propeller | Set/Fixed |
| Seatbelts | On |
| Clearing Turns | Complete |
| Communicate | As required |

Power-Off (Approach) Stall:

| | |
|---------------------|------------------------|
| Altitude | Min. 1500 ft. AGL |
| Carb. Heat | On |
| Throttle | 1700 RPM |
| Flaps | One notch at a time |
| Speed | Slow to 70 mph |
| Stabilized Approach | Begin descent |
| Throttle | Reduce to Idle |
| Pitch Attitude | Pitch up as if landing |

—Recovery—

| | |
|---------------|---|
| Back Pressure | Reduce |
| Throttle | Full Open |
| Carb. Heat | Off |
| Wings | Level |
| Flaps | Reduced one notch |
| Pitch | 80 mph |
| Flaps | Reduce one notch at a time (when VSI = positive) |
| Airspeed | 80 mph and climb to original altitude and level off |

Power-On (Departure) Stall:

| | |
|------------|---------------------|
| Altitude | Min. 1500 ft. AGL |
| Carb. Heat | On |
| Throttle | 1700 RPM |
| Altitude | Maintain |
| Airspeed | Slow to 70 mph |
| Pitch | Up as if taking off |
| Throttle | Full Open |
| Carb. Heat | Off |

—Recovery—

| | |
|---------------|---|
| Back Pressure | Reduce |
| Throttle | Full Open |
| Airspeed | Establish Vx or Vy before returning to normal flight attitude |

Ground Reference Maneuvers:

| | |
|----------|-------------------|
| Altitude | 600 - 1000 ft AGL |
| Throttle | 2300 RPM |
| Airspeed | 100 MPH |
| Enter | Downwind |
| Exit | Downwind |

Steep Turns:

| | |
|----------|----------------------------------|
| Altitude | Min. 1500ft. AGL |
| Power | 2300RPM |
| Airspeed | 100mph (V _A or lower) |
| Bank | 45 Degrees |
| Power | Add 100-200 RPM |
| Pitch | Slight backpressure |
| Trim | As required |
| Exit | On Entry Heading |

Slow Flight:

| | |
|------------|--|
| Altitude | Min. 1500ft. AGL |
| Carb. Heat | On |
| Throttle | 1700 RPM |
| Flaps | One notch at a time |
| Pitch | Up to maintain altitude |
| Airspeed | 60 mph (Flaps down) 70 mph (Flaps up) |
| Throttle | Add as necessary to maintain altitude |

Short-Field Takeoff:

| | |
|-------------|--------------------------------|
| Flaps | Up (10° no obstacle) |
| Runway | Use maximum available |
| Brakes | Hold |
| Throttle | Full Open |
| Engine Inst | Check |
| Brakes | Release |
| (Takeoff) | |
| Rotate | 60mph |
| Airspeed | Vx = 70mph |
| Flaps | Retract clear of all obstacles |
| Airspeed | Increase to Vy = 80mph |

Soft-Field Takeoff:

| | |
|----------|--|
| Flaps | Up (10° no obstacle) |
| Yoke | Full Aft |
| Runway | Align on runway centerline without stopping |
| Power | Full Open and release back pressure as speed increases |
| Pitch | Pop wheelie and pitch forward into ground effect |
| Airspeed | Vx or Vy (70 or 80 mph) |
| Flaps | Retract clear of all obstacles |
| Airspeed | Increase to Vy = 80mph |

Short-Field Landing:

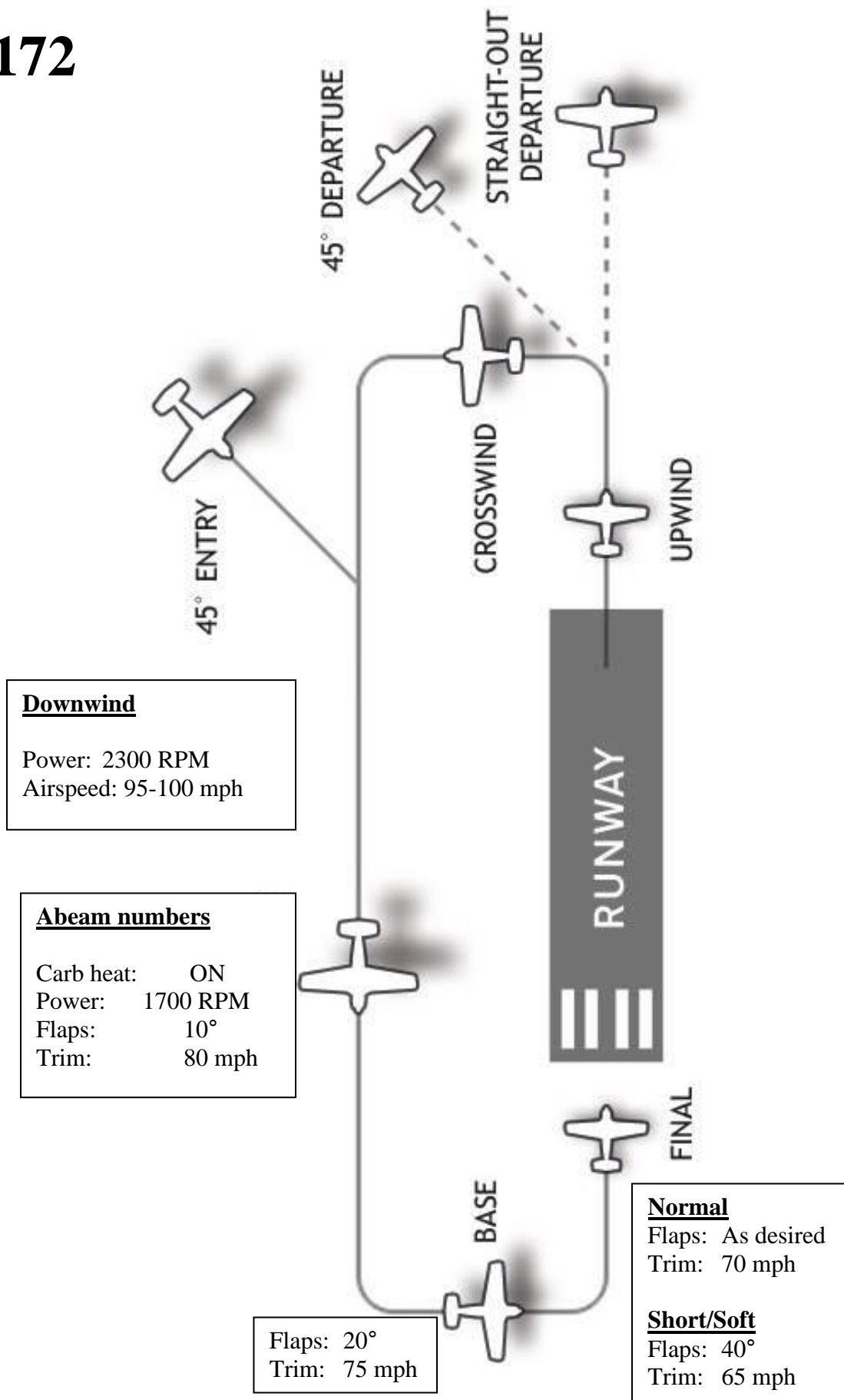
| | |
|-----------|--|
| Flaps | 40° |
| Airspeed | 65 mph |
| Touchdown | On selected point +200 feet |
| Braking | Maximum while pulling full aft on yoke |

Soft-Field Landing:

| | |
|------------|---------------------|
| Flaps | 40° |
| Touchdown | Softly, mains first |
| Nose wheel | Gently lower |

* The Pre-Maneuver Checklist must be completed prior to any private pilot maneuver

C 172



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Private Pilot Maneuvers: Cherokee 140

*Pre-Maneuver Checklist: (ABC's)

| | |
|----------------|---------------|
| Altitude | MRA or higher |
| Boost Pump | As desired |
| Carb Heat | As desired |
| Gas | Fullest Tank |
| Undercarriage | Down/Locked |
| Mixture | Set |
| Propeller | Set/Fixed |
| Seatbelts | On |
| Clearing Turns | Complete |
| Communicate | As required |

Power-Off (Approach) Stall:

| | |
|---------------------|------------------------|
| Altitude | Min. 1500 ft. AGL |
| Throttle | 1700 RPM |
| Flaps | One notch at a time |
| Speed | Slow to 76 mph |
| Stabilized Approach | Begin descent |
| Throttle | Reduce to Idle |
| Pitch Attitude | Pitch up as if landing |

—Recovery—

| | |
|---------------|--|
| Back Pressure | Reduce |
| Throttle | Full Open |
| Wings | Level |
| Flaps | Reduced one notch |
| Pitch | 74 mph |
| Flaps | Reduce one notch at a time (when VSI = 0) |
| Airspeed | 85 mph and climb to original altitude and level off |

Power-On (Departure) Stall:

| | |
|----------|---------------------|
| Altitude | Min. 1500 ft. AGL |
| Throttle | 1700 RPM |
| Altitude | Maintain |
| Airspeed | Slow to 70 mph |
| Pitch | Up as if taking off |
| Throttle | Full Open |

—Recovery—

| | |
|---------------|---|
| Back Pressure | Reduce |
| Throttle | Full Open |
| Airspeed | Establish Vx or Vy before returning to normal flight attitude |

Ground Reference Maneuvers:

| | |
|----------|-------------------|
| Altitude | 600 - 1000 ft AGL |
| Throttle | 2300 RPM |
| Airspeed | 100 MPH |
| Enter | Downwind |
| Exit | Downwind |

Steep Turns:

| | |
|----------|-----------------------------------|
| Altitude | Min. 1500ft. AGL |
| Power | 2300 RPM |
| Airspeed | 100 mph (V _A or lower) |
| Bank | 45 Degrees |
| Power | Add 100-200 RPM |
| Pitch | Slight back-pressure |
| Trim | As required |
| Exit | On Entry Heading |

Slow Flight:

| | |
|----------|--|
| Altitude | Min. 1500ft. AGL |
| Throttle | 1700 RPM |
| Flaps | One notch at a time |
| Pitch | Up to maintain altitude |
| Airspeed | 60mph (Flaps down) 70mph (Flaps up) |
| Throttle | Add as necessary to maintain altitude |

Short-Field Takeoff:

| | |
|-------------|---|
| Flaps | 25° |
| Runway | Use maximum available |
| Brakes | Hold |
| Throttle | Full Open |
| Engine Inst | Check |
| Brakes | Release |
| (Takeoff) | |
| Rotate | 60 mph |
| Airspeed | V _x = 74 mph |
| Flaps | Retract one notch at a time clear of all obstacles |
| Airspeed | Increase to V _y = 85mph |

Soft-Field Takeoff:

| | |
|----------|---|
| Flaps | 25° |
| Yoke | Full Aft |
| Runway | Align on runway centerline without stopping |
| Power | Full Open and release back pressure as speed increases |
| Pitch | Pop wheelie and pitch forward into ground effect |
| Airspeed | V _x or V _y (74 or 85 mph) |
| Flaps | Retract clear of all obstacles |
| Airspeed | Increase to V _y = 85mph |

Short-Field Landing:

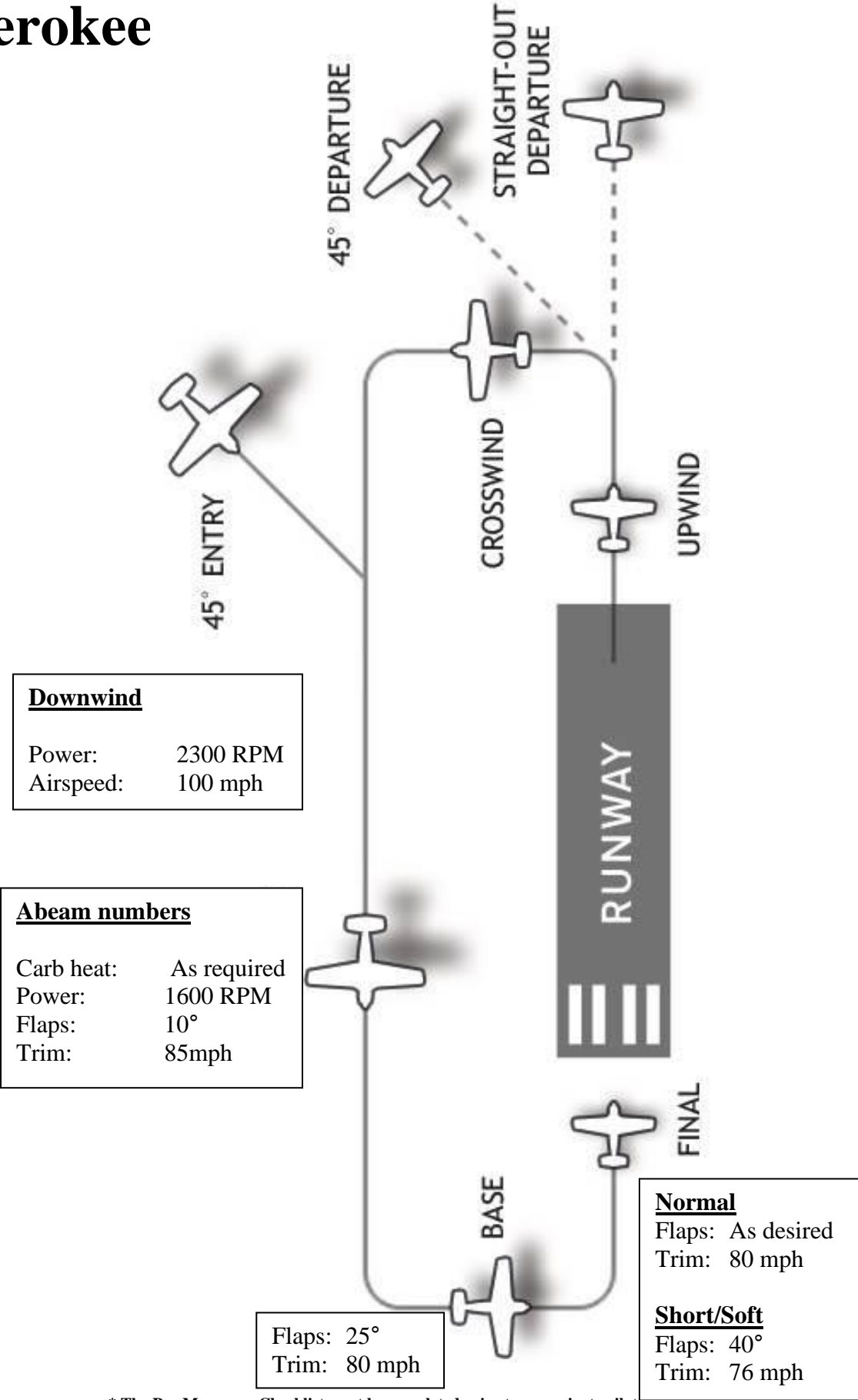
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|-----------|---|
| Flaps | 40° |
| Airspeed | 76 mph |
| Touchdown | On selected point +200 feet |
| Braking | Maximum while pulling full aft on yoke |

Soft-Field Landing:

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|------------|---------------------|
| Flaps | 40° |
| Touchdown | Softly, mains first |
| Nose wheel | Gently lower |

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Cherokee



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