

# QUICK REFERENCE MANEUVERS FOR C-152/C-172

## STANDARD OPERATING PROCEDURES

### Clearing Turns (pick road or canal for reference)

Lift wing start turn 90° to your left  
Then 90° back to the right  
While turning say out loud horizon/traffic/altitude

### Slow Flight (pick road or canal for reference)

Pre-maneuver Check  
HEADING/ALTITUDE/HORIZON  Carb heat on  
HEADING/ALTITUDE/HORIZON  Power to 1700 RPM  
HEADING/ALTITUDE/HORIZON  10° flaps  
HEADING/ALTITUDE/HORIZON  20° flaps  
HEADING/ALTITUDE/HORIZON  30° flaps  
HEADING/ALTITUDE/HORIZON  Power to 2000 RPM  
Pitch = airspeed  left hand  
Power = altitude  right hand  
Scan – OUTSIDE/AIRSPEED/ALTITUDE

### Power off stalls

Go to slow flight  
Power off completely  
Raise nose smoothly (using right rudder for directional control) until stall warning or buffet occurs  
Lower nose to horizon and add full power with right rudder  
Raise nose 1° for positive pitch  
Raise 10° flaps  
Raise 20° flaps  
Raise 30° flaps

### Power on stalls

Clearing turns  
Pre-maneuver checklist  
HEADING/ALTITUDE/HORIZON  carb heat on  
HEADING/ALTITUDE/HORIZON  power to idle  
HEADING/ALTITUDE/HORIZON  wait for airspeed to drop to 65 KTS while pitching up and maintaining altitude  
Then full power/right rudder, raise the nose slowly until stall warning or buffet  
Lower nose to horizon for 3 seconds then raise nose 2° for climb out

### Forward slip

Clearing turns  
Pre-maneuver checklist  
HEADING/ALTITUDE/HORIZON  carb heat on  
HEADING/ALTITUDE/HORIZON  Power to IDLE RPM  
Raise nose slowly until airspeed reaches 60 KTS  
Smoothly apply rudder and opposite aileron  
Always keep nose below horizon

### S-Turns

Clearing turns  
Pick a road or canal  
Enter downwind  
Wing and ROAD/ALTITUDE/HORIZON  
Roll out smoothly over the road  
When upwind – bank only 10° for 5 sec  
Then continue turn  
Using wing and ROAD/ALTITUDE/HORIZON

### Turns around a point

Clearing turns  
Enter downwind  
Wing & POINT/ALTITUDE/HORIZON

### Shortfield Takeoff

Brakes  
10° flaps  
Full power, oil pressure/temp/RPM  
Release brakes  
Rotate at 50 KTS pitch smoothly to 10°-12°  
Climb at 55 KTS to 100 feet  
Lower nose 5° pitch  
Climb at  $V_Y 65$

### Softfield Takeoff

10° flaps  
Yoke back  
Roll onto runway, adding power in increments while releasing yoke  
Look at the end of the runway/trees buildings/etc  
When aircraft comes off allow nose to stay at trees for 3 seconds then  $V_Y$

### Shortfield Landing

On final airspeed 55 KTS  
Pitch for speed 1° – 2°  
Aim for 200 feet prior to touchdown point

### Softfield Landing

On final airspeed 55 KTS  
Pitch for speed 1° – 2°  
When in ground effect add a touch of power, upon touchdown, cut power  
Keep yoke back until you get off the runway

**NOTE: ALL PRIVATE PILOT MANEUVERS ALONG WITH THE PTS ARE IN THE JEPPESEN PRIVATE PILOT MANEUVERS BOOK. PLEASE FOLLOW THESE GUIDELINES.**