

Hold Worksheet

“Cessna 968RC, due to weather delays in Salinas we need you to hold unpublished. Advise ready to copy instructions.”

“Cessna 8RC, hold South over Salinas VOR on the 180 radial, expect further clearance at 1855 Zulu.”



Step 1: Picture the hold by drawing a line from the RADIAL (180) to the center of the heading indicator, then turning right (standard), or left if directed. Determine which direction is the protected side of the hold (East in this case).



Step 2: Hold your finger (pen, thumb, whatever works) over the wings. Lift your finger 20 degrees either right for right turns or left for left turns. If the radial falls in the small portion it will be a teardrop entry, the middle-size portion will be a parallel entry, and the bottom 180 degrees will be a direct entry.

Step 3: Now determine what steps you will need to take to complete the first few sets of Ts. Using the example above and “seeing” the flight path on the heading indicator, we can determine the first 4 sets of Ts for a parallel entry to establish us in the hold and make the first full pattern. We are at the bottom of the heading indicator (currently on the 090 radial) and flying TO the VOR (center of the heading indicator) on a course of 270 TO the station. When we get to the VOR, we must turn left to 180, fly outbound, then turn approximately 240 degrees to the LEFT (protected side) and find the 180 radial to fly to the VOR. So...

Crossing the VOR (flag flips)

Turn – To outbound heading (180)

Time – 1 minute outbound

Twist – Radial 180 at the bottom (**360 TO is our inbound course to the VOR)

Throttle – Slow to holding speed within 3 minutes of fix

Talk – Report entering the hold... “Cessna 8RC entering the hold over SNS at 1830Z”

At 1 minute

Turn – Left to intercept inbound *course* of 360 TO the VOR (what should our heading be? Approx 300)

Time – 1 minute at wings level

Twist – Verify radial at the bottom, tracking TO the VOR

Throttle – Check speed and altitude

Talk – Done

Crossing the VOR (flag flips)

Turn – Right turn to outbound *heading*

Time – 1 minute when the OBS indicates you are outbound (i.e. TO indicator)

Twist – Done

Throttle – Check speed and altitude

Talk – Done

At 1 minute

Turn – Right to intercept inbound *course*

Time – When wings level

Twist – Done

Throttle – Check speed and altitude

Talk – Done

Now it's your turn! Determine the first 4 sets Ts for each of the following heading indications and hold instructions.

“Cessna 968RC, hold Northwest on the 320 radial. Expect further clearance in 20 minutes.”



Crossing the VOR (flag flips)

Turn –
Time –
Twist –
Throttle –
Talk –

At 1 minute

Turn –
Time –
Twist –
Throttle –
Talk –

Crossing the VOR (flag flips)

Turn –
Time –
Twist –
Throttle –
Talk –

At 1 minute

Turn –
Time –
Twist –
Throttle –
Talk –

“Cessna 968RC, hold West on the 270 radial, left turns. Expect further clearance in 20 minutes.”



Crossing the VOR (flag flips)

Turn –
Time –
Twist –
Throttle –
Talk –

Crossing the VOR (flag flips)

Turn –
Time –
Twist –
Throttle –
Talk –

At 1 minute

Turn –
Time –
Twist –
Throttle –
Talk –

At 1 minute

Turn –
Time –
Twist –
Throttle –
Talk –

“Cessna 968RC, hold North on the 360 radial, left turns. Expect further clearance in 20 minutes.”



Crossing the VOR (flag flips)

- Turn –
- Time –
- Twist –
- Throttle –
- Talk –

At 1 minute

- Turn –
- Time –
- Twist –
- Throttle –
- Talk –

Crossing the VOR (flag flips)

- Turn –
- Time –
- Twist –
- Throttle –
- Talk –

At 1 minute

- Turn –
- Time –
- Twist –
- Throttle –
- Talk –

“Cessna 968RC, hold Southeast on the 130 radial. Expect further clearance in 20 minutes.”



Crossing the VOR (flag flips)

- Turn –
- Time –
- Twist –

- Throttle –
- Talk –

At 1 minute

- Turn –
- Time –

Twist –
Throttle –
Talk –

Crossing the VOR (flag flips)

Turn –
Time –
Twist –
Throttle –
Talk –

At 1 minute

Turn –
Time –
Twist –
Throttle –
Talk –

“Cessna 968RC, hold North on the 320 radial.
Expect further clearance in 20 minutes.”



Crossing the VOR (flag flips)

Turn –
Time –
Twist –
Throttle –
Talk –

Crossing the VOR (flag flips)

Turn –
Time –
Twist –
Throttle –
Talk –

At 1 minute

Turn –
Time –
Twist –
Throttle –
Talk –

At 1 minute

Turn –
Time –
Twist –
Throttle –
Talk –