









WHY WOULD A PILOT EVER DO THAT?

BECAUSE THAT'S THE WAY THEY WERE TAUGHT!

HOW TO PRACTICE

- 1. Sufficient Altitude
- 2. Reduce Power
- 3. Configure
- 4. Power to Idle

SAFE HOW TO PRACTICE

- 5. Establish Glide
- 6. Slowly Increase Angle of Attack
- 7. Recognize Aircraft Indications
- 8. Recover: a. reduce AoA b. add power

SATE POWER ON STALL SCENARIOS

WHEN ARE POWER ON STALLS LIKELY?

- Too high AoA > Ground Effect
- Go Around
- Clearing an Obstacle
- Trim Stall
- Practicing Maneuvers
- Lee Side Sink

LEE SIDE SINK

THE SCENARIO:

- High DA (Hot, Low Pressure, High Elevation, Humid)
- Heavy (CO Considerations)
- Power Limited by Conditions
- Wind

SĂFE

Approaching Ridge Straight On

SAFE HOW TO PRACTICE

- 1. Sufficient Altitude
- 2. Reduce Power to 55% 65%
- 3. Slowly Increase Angle of Attack
- 4. Recognize Aircraft Indications

SAFE THE BASE-TO-FINAL STALL / SPIN

DEADLY SEQUENCE INITIATED BY THE PILOT:

- 5. Nose yaws below the horizon
- 6. Pulls back on yoke, believing "elevator = up"
- 7. Turn tightens, 6's increase, speed decreases increasing AOA cues!
- 8. Consequence: Yaw + Stall = LOC-I,
 - i.e., Stall/Spin at low altitude

SPINS

SAFE

HOW SHOULD SPIN RECOVERY INPUTS BE APPLIED?

Step 1—REDUCE THE POWER (THROTTLE) TO IDLE (Power aggravates the spin characteristics.)

Step 2—POSITION THE AILERONS TO NEUTRAL (Ailerons may have an adverse effect on spin recovery.)

Step 3—APPLY FULL OPPOSITE RUDDER AGAINST THE ROTATION (Make sure that full opposite rudder has been applied.)

SPINS

SAFE

HOW SHOULD SPIN RECOVERY INPUTS BE APPLIED?

Step 4—APPLY A POSITIVE AND BRISK, STRAIGHT FORWARD MOVEMENT OF THE ELEVATOR CONTROL (This should be done <u>immediately</u> after full rudder application)

Step 5—AFTER SPIN ROTATION STOPS, NEUTRALIZE THE RUDDER.

Source: Airplane Flying Handbook, Pg. 4-15

SPINS

SAFE

When spinning, the slip/skid ball is totally unreliable for determining spin direction. —What instrument does provide reliable spin direction information (upright spins)?

1. SYMBOLIC AIRPLANE OF TURN COORDINATOR

SPINS

Some aircraft can exhibit aggravated spin behavior by design (it's just their nature).

-Even so, what pilot-controlled actions tend to aggravate a spin?

SPINS

SPIN AGGRAVATORS:

SAFE

- **1. INCREASING POWER**
- 2. DEFLECTING AILERONS
- **3. RECOVERY ELEVATOR APPLIED**
- PRIOR TO RECOVERY RUDDER
- 4. LOADING BEYOND WEIGHT
 - **SAFT COLIMITS**

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SAFE

SUMMARY

- STALL SCENARIOS & DYNAMICS
- SPIN SCENARIOS & DYNAMICS
- TRAIN FOR:
 - STALL RECOGNITION & RECOVERY
 - SPIN PREVENTION & RECOVERY

