

## Cockpit Flows: C172S

### Interior Flow

1. Passenger Briefing
2. Seat Track/Back/Height
3. Break Pedals
4. Circuit Breakers
5. Avionics OFF
6. Alternate Static
7. Fuel Selector and Shutoff Valve

### Pre-Start Flow

1. Brakes
2. Beacon
3. Throttle ¼
4. Master ON
5. Fuel Pump ON
6. Mixture RICH
7. Fuel Flow 3-5gph
8. Mixture LEAN
9. Fuel Pump OFF

### Start Flow

1. Prop Clear
2. Ignition START
3. Mixture RICH
4. Throttle 1000rpm
5. Oil Pressure
6. Mixture Lean

### Pre-Taxi Flow

1. Seat Belts and Harness
2. Flaps UP
3. Cabin Heat/Air
4. Avionics ON
5. Intercom, Audio panel, Mic
6. GPS Initialized
7. COM 1, COM2 SET
8. Transponder STBY

### Taxi Check Flow

1. Brakes Test
2. Turn Coordinator/Ball Check
3. Heading Indicator Check
4. Attitude Indicator Check
5. Compass Check

### Pre-Runup Flow

1. Brake SET
2. Flight Controls CHECK
3. Fuel BOTH & Fuel Shutoff IN
4. Mixture RICH
5. Annunciator Lights TEST
6. Instruments CHECK

### Runup Flow

1. 1800rpm
2. Mags CHECK
3. Oil Temperature, Oil Pressure, Vacuum, AMPS, Fuel Flow, Volts
4. Idle CHECK, Throttle 1000rpm
5. Mixture LEAN

### Pre-Takeoff Flow - To the Line

1. Doors and Windows
2. Fuel Pump OFF
3. Trim Set for Takeoff
4. Fuel Selector BOTH
5. Flaps 0°-10°
6. HDG to Compass, Bug Rwy Heading

### Cross Country or IFR

1. Markers and Audio Panel
2. Flight Plan Active
3. Navs and Coms Set
4. Squawk Code set
5. A/P Alt Preselect
6. Source Select (Nav/GPS)
7. OBS 1 and OBS 2 Set

### Pre-Takeoff Flow - Below the Line

1. Lights - Landing Light ON
2. Camera - Transponder ALT
3. Action - Mixture RICH
4. Time - NOTE

## Cockpit Flows: C172S

### Takeoff Flow

1. Power – More than 2350rpm
2. Oil Temperature, Oil Pressure, Fuel Flow
3. Vr – Rotate
4. Maintain Vy, Runway Heading/Centerline

### Climb Flow – 1000ft AGL

1. Airspeed – 90kts or cruise climb
2. Throttle - FULL
3. Mixture – RICH
4. Oil Temperature, Oil Pressure, Vacuum, AMPS/Volts, Fuel Flow
5. Landing Light – OFF
6. Flight Plan – OPEN

### Cruise Flow

1. Power – SET
2. Mixture – LEAN
3. Engine Instruments – CHECK (temperature, pressure, vacuum, amps/volts, fuel flow, fuel quantity)
4. Heading to Compass

### Descent Flow

1. ATIS/AWOS – COPIED
2. Altimeters – SET
3. Fuel Selector – BOTH
4. Mixture – Enrichen
5. Engine Instruments – CHECK (temperature, pressure, vacuum, amps/volts, fuel flow, fuel quantity)
6. Heading to Compass

### Pre-Landing Flow

1. Seat Belts and Harness - ON
2. Fuel Selector BOTH
3. Mixture RICH
4. Landing Light ON
5. Engine Instruments – CHECK

### After Landing Flow

1. Landing Light OFF
2. Transponder STBY
3. Flaps UP
4. Mixture LEAN
5. Trim SET FOR TAKEOFF

### Shutdown Flow

1. ELT Test
2. Avionics OFF
3. Mixture IDLE CUTOFF
4. Mags OFF & Remove Key
5. Master OFF
6. Fuel Selector LEFT OR RIGHT

# Cockpit Flows: C172S

## Interior Flow

<http://www.sportys.com>

Sporty's Pilot Shop

1.800.SPORTYS

### Interior Flow

1. Passenger Briefing
2. Seat Track/Back/Height
3. Break Pedals
4. Circuit Breakers
5. Avionics OFF
6. Alternate Static
7. Fuel Selector Both
8. Shutoff Valve In



Passenger Briefing

# Cockpit Flows: C172S

## Pre-Start Flow

<http://www.sportys.com>

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### Pre-Start Flow

1. Brakes
2. Beacon
3. Throttle ¼
4. Master ON
5. Fuel Pump ON
6. Mixture RICH
7. Fuel Flow 3-5gph
8. Mixture LEAN
9. Fuel Pump OFF



Brakes

# Cockpit Flows: C172S

## Start Flow

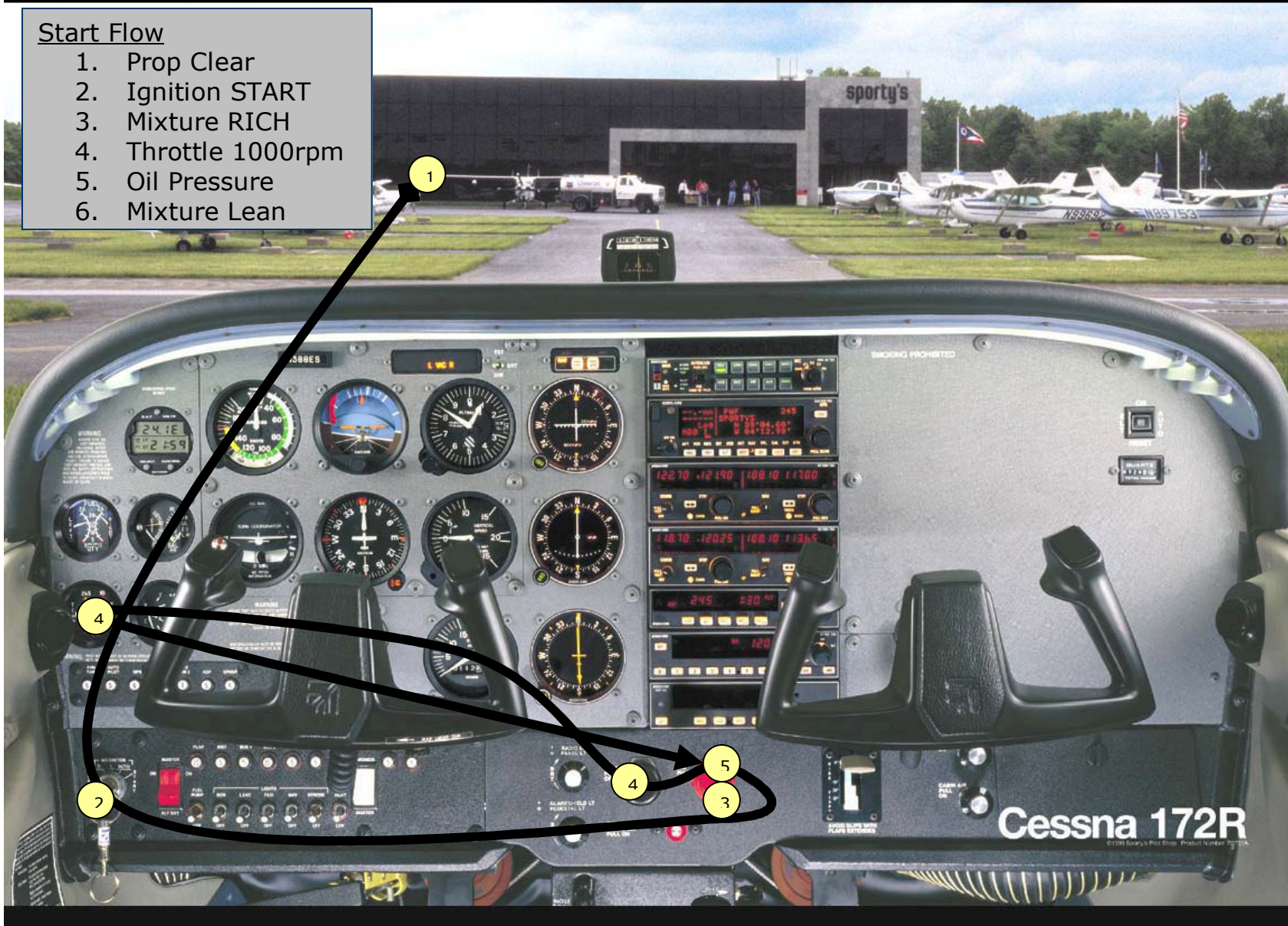
<http://www.sportys.com>

Sporty's Pilot Shop

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### Start Flow

1. Prop Clear
2. Ignition START
3. Mixture RICH
4. Throttle 1000rpm
5. Oil Pressure
6. Mixture Lean



# Cockpit Flows: C172S

## Pre-Taxi Flow

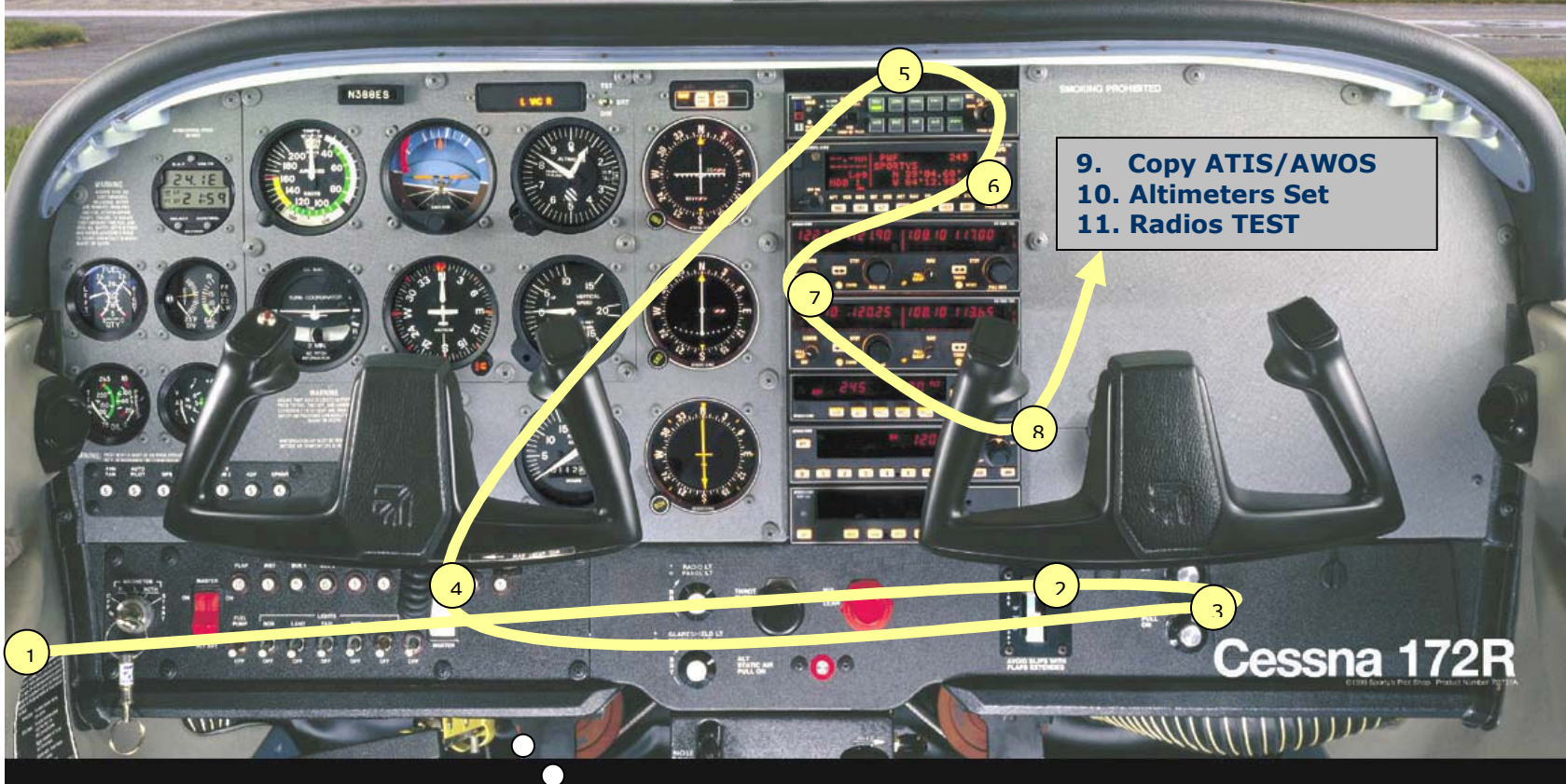
<http://www.sportys.com>

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### Pre-Taxi Flow

1. Seat Belts and Harness
2. Flaps UP
3. Cabin Heat/Air
4. Avionics ON
5. Intercom, Audio panel, Mic
6. GPS Initialized
7. COM 1, COM2 SET
8. Transponder STBY



9. Copy ATIS/AWOS
10. Altimeters Set
11. Radios TEST

# Cockpit Flows: C172S

## Taxi Flow

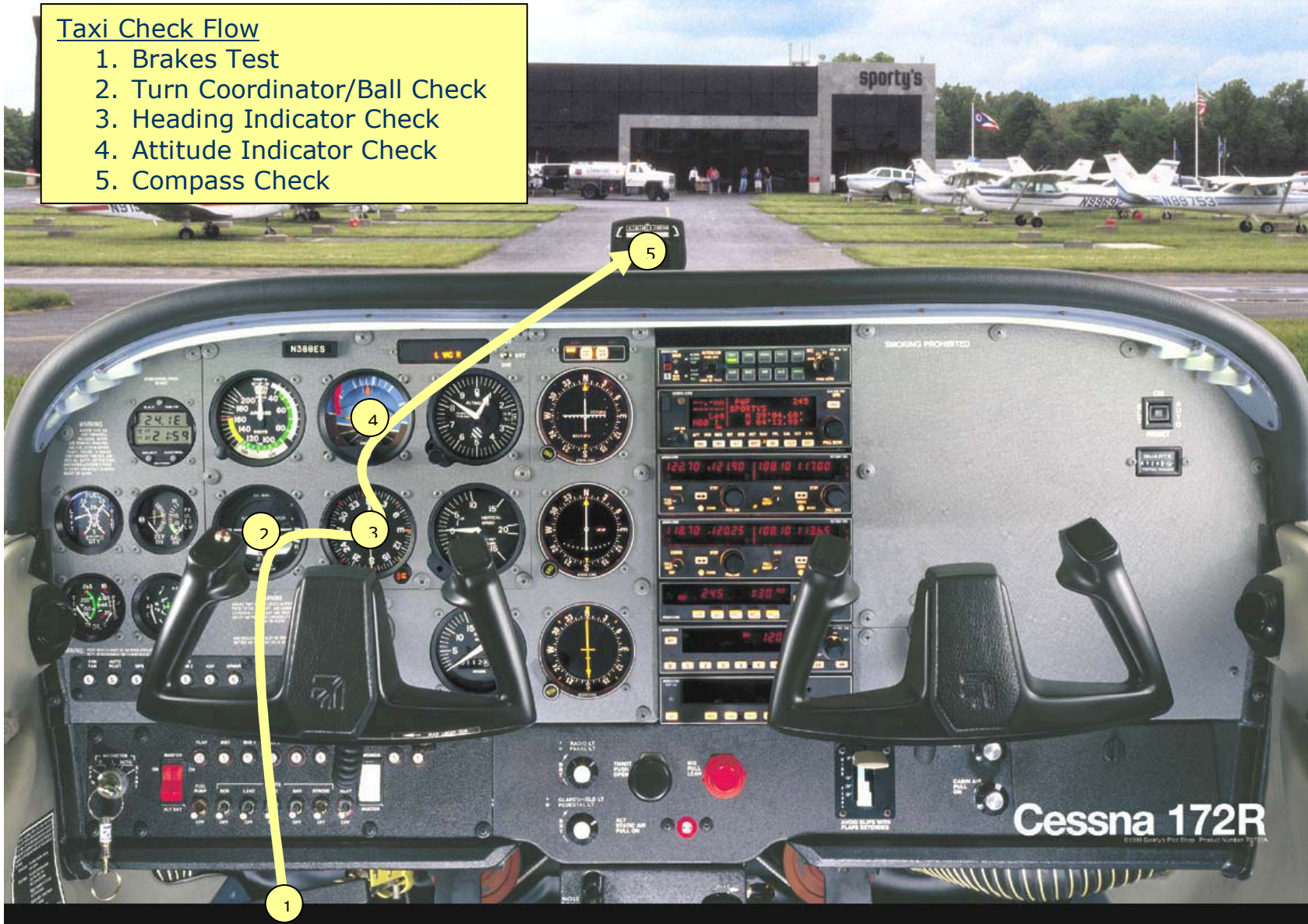
<http://www.sportys.com>

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### Taxi Check Flow

1. Brakes Test
2. Turn Coordinator/Ball Check
3. Heading Indicator Check
4. Attitude Indicator Check
5. Compass Check



# Cockpit Flows: C172S

## Pre-Runup Flow

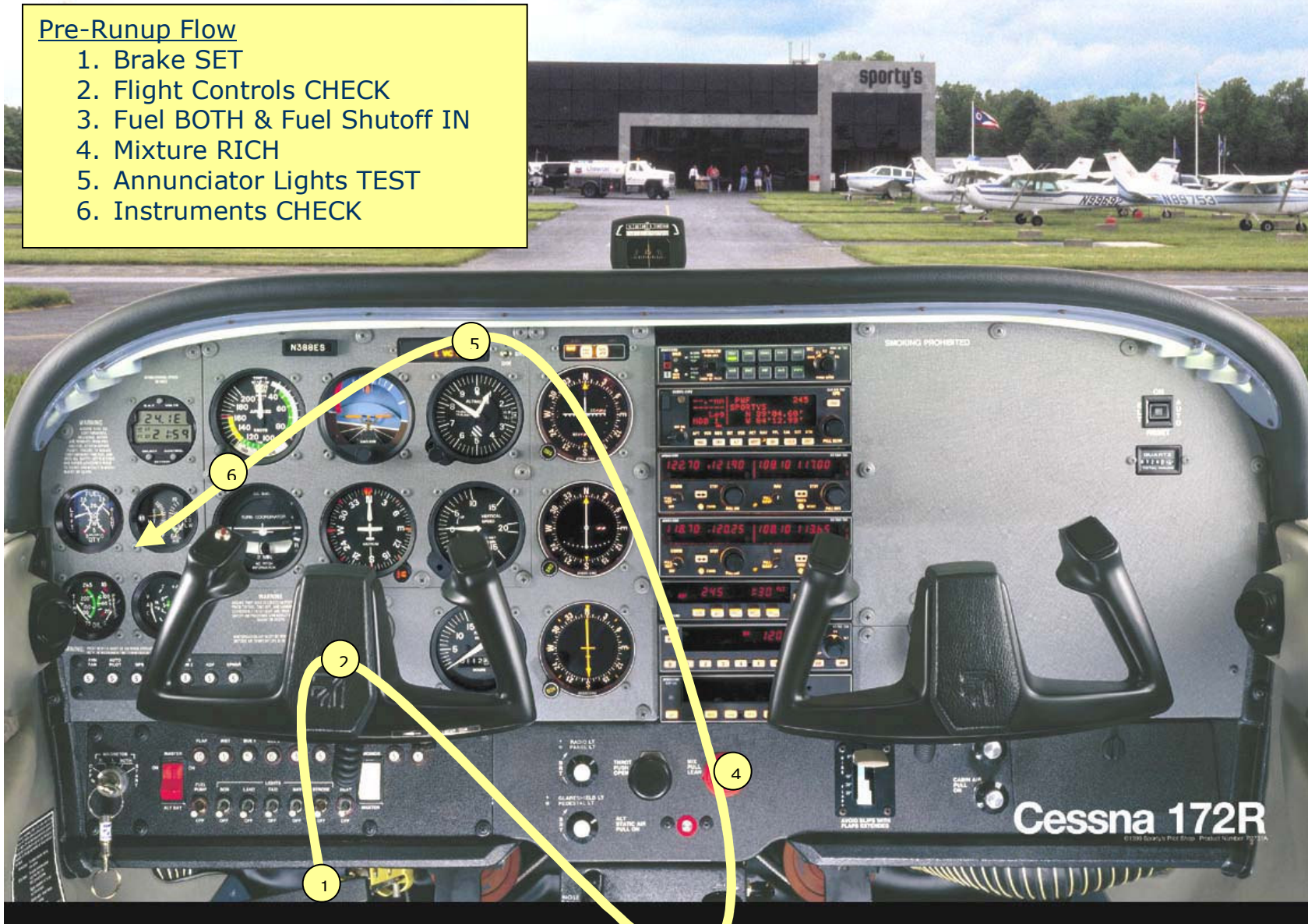
<http://www.sportys.com>

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### Pre-Runup Flow

1. Brake SET
2. Flight Controls CHECK
3. Fuel BOTH & Fuel Shutoff IN
4. Mixture RICH
5. Annunciator Lights TEST
6. Instruments CHECK



# Cockpit Flows: C172S

## Runup Flow

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### Runup Flow

1. 1800rpm
2. Mags CHECK
3. Oil Temperature, Oil Pressure, Vacuum, AMPS, Fuel Flow, Volts
4. Idle CHECK, Throttle 1000rpm
5. Mixture LEAN



# Cockpit Flows: C172S

## Pre-Takeoff Flow – To the Line

<http://www.sportys.com>

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### Pre-Takeoff Flow - To the Line

1. Doors and Windows
2. Fuel Pump OFF
3. Trim Set for Takeoff
4. Fuel Selector BOTH
5. Flaps 0°-10°
6. HDG to Compass, Bug Rwy Heading

### Cross Country or IFR

1. Markers and Audio Panel
2. Flight Plan Active
3. Navs and Coms Set
4. Squawk Code set
5. A/P Alt Preselect
6. Source Select (Nav/GPS)
7. OBS 1 and OBS 2 Set

Doors and Windows

1

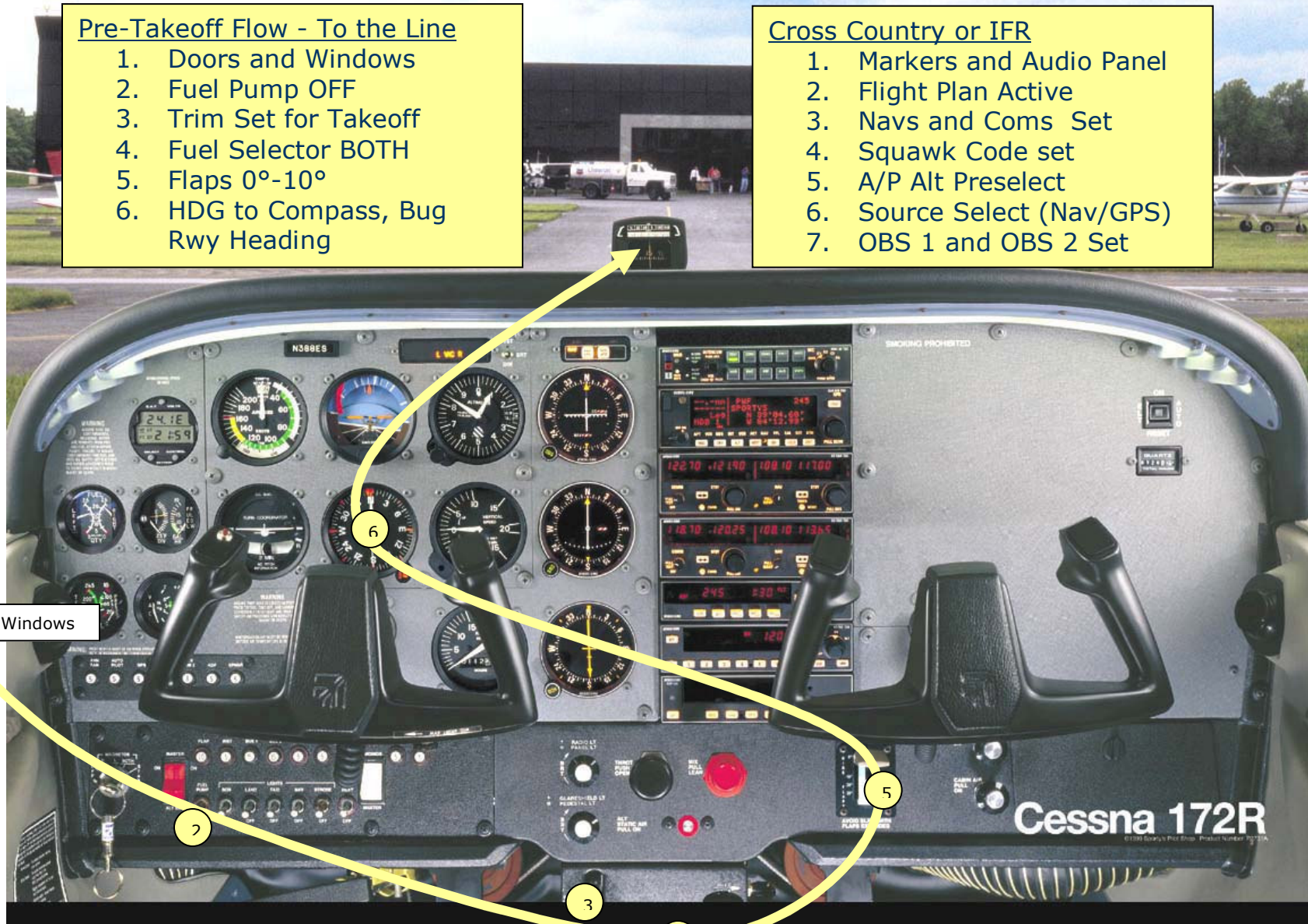
2

6

3

5

4



# Cockpit Flows: C172S

## Pre-Takeoff Flow - Below the Line

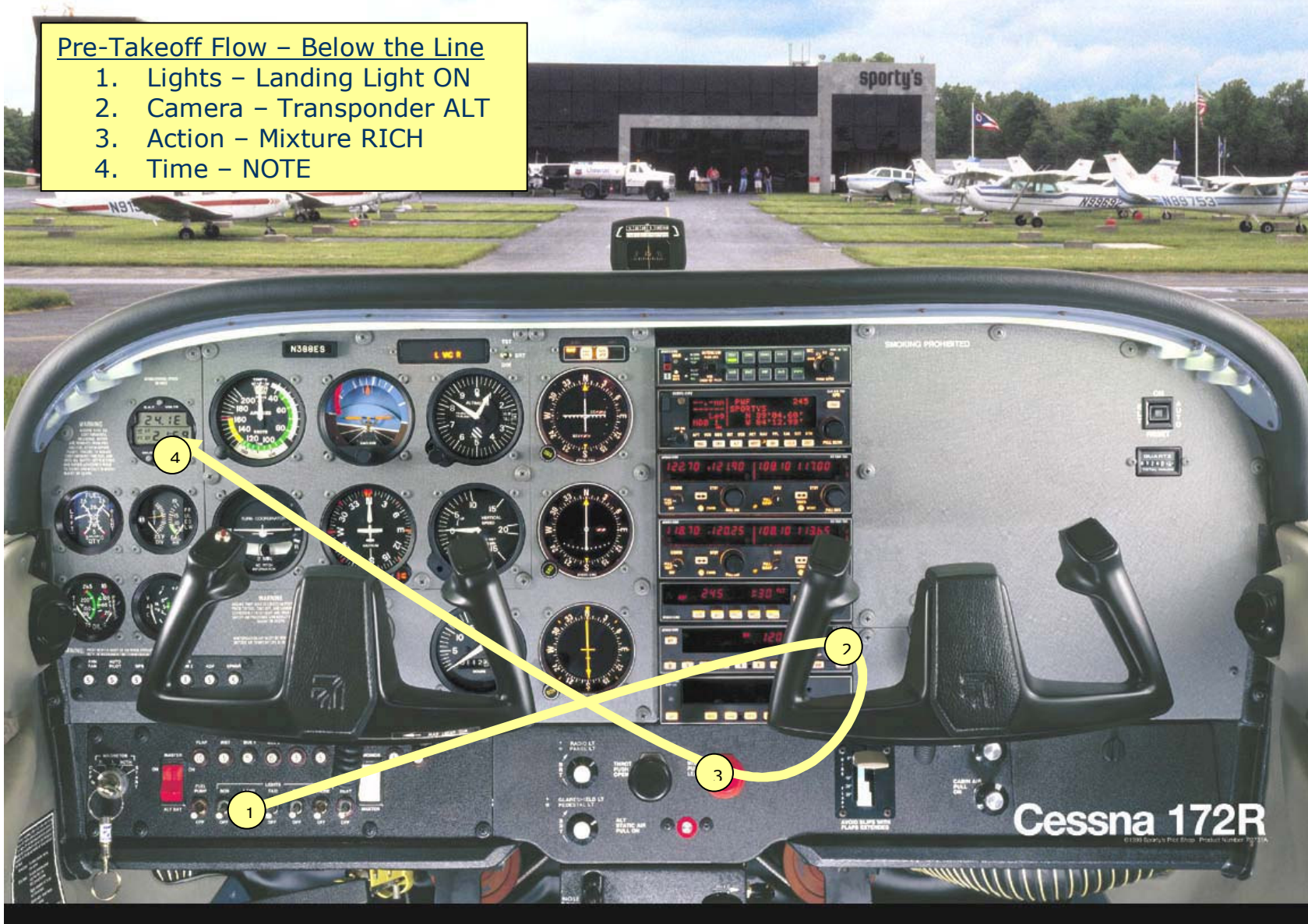
<http://www.sportys.com>

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### Pre-Takeoff Flow - Below the Line

1. Lights – Landing Light ON
2. Camera – Transponder ALT
3. Action – Mixture RICH
4. Time – NOTE



# Cockpit Flows: C172S

## Takeoff Flow

### Takeoff Flow

1. Power – More than 2350rpm
2. Oil Temperature, Oil Pressure, Fuel Flow
3. Vr – Rotate
4. Maintain Vy, Runway Heading/Centerline

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# Cockpit Flows: C172S

## Climb Flow – 1000ft AGL

### Climb Flow – 1000ft AGL

1. Airspeed – 90kts or cruise climb
2. Throttle - FULL
3. Mixture – RICH
4. Oil Temperature, Oil Pressure, Vacuum, AMPS/Volts, Fuel Flow
5. Landing Light – OFF
6. Flight Plan – OPEN



# Cockpit Flows: C172S

## Cruise Flow

<http://www.sportys.com>

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### Cruise Flow

1. Power – SET
2. Mixture – LEAN
3. Engine Instruments – CHECK  
(temperature, pressure, vacuum, amps/volts, fuel flow, fuel quantity)
4. Heading to Compass



# Cockpit Flows: C172S

## Descent Flow

### Descent Flow

1. ATIS/AWOS – COPIED
2. Altimeters – SET
3. Fuel Selector – BOTH
4. Mixture – Enrichen
5. Engine Instruments – CHECK (temperature, pressure, vacuum, amps/volts, fuel flow, fuel quantity)
6. Heading to Compass



# Cockpit Flows: C172S

## Prelanding Flow

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### Pre-Landing Flow

1. Seat Belts and Harness - ON
2. Fuel Selector BOTH
3. Mixture RICH
4. Landing Light ON
5. Engine Instruments - CHECK



# Cockpit Flows: C172S

## After Landing Flow

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### After Landing Flow

1. Landing Light OFF
2. Transponder STBY
3. Flaps UP
4. Mixture LEAN
5. Trim SET FOR TAKEOFF



# Cockpit Flows: C172S

## Shutdown Flow

<http://www.sportys.com>

Sporty's Pilot Shop

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### Shutdown Flow

1. ELT Test
2. Avionics OFF
3. Mixture IDLE CUTOFF
4. Mags OFF & Remove Key
5. Master OFF
6. Fuel Selector LEFT OR RIGHT

