

## Attitude Instrument Flying

### **Fundamental Skills**

An instrument \_\_\_\_\_ is also called a “scan.”

The second fundamental skill is instrument \_\_\_\_\_.

The action you take as a result of the first two fundamental skills is

\_\_\_\_\_.

### **Scanning Errors**

\_\_\_\_\_ is the tendency to stare at a single instrument.

\_\_\_\_\_ occurs when one element of a scan is left out.

\_\_\_\_\_ is over-reliance on a single instrument.

### **Primary/Support Concept**

The primary/supporting method of instrument interpretation divides the panel into instruments for \_\_\_\_\_, \_\_\_\_\_, and

\_\_\_\_\_.

All primary instruments must have \_\_\_\_\_ assigned to them.

\_\_\_\_\_ is the primary instrument for transitions and change (full panel.)

### **Control & Performance Concept**

The control/performance method of instrument interpretation divides the panel into instruments for \_\_\_\_\_, \_\_\_\_\_, and

\_\_\_\_\_.

Under this method, pilots set power and attitude using the tachometer & att.

indicator and then use the \_\_\_\_\_ to check the results.

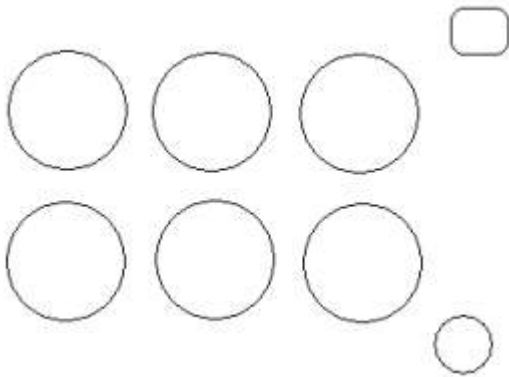
## Instrument Scanning

A conventional “six pack”

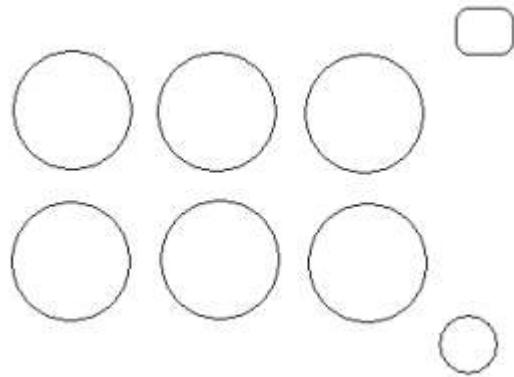


### Scanning Methods (according to Ralph Bucher)

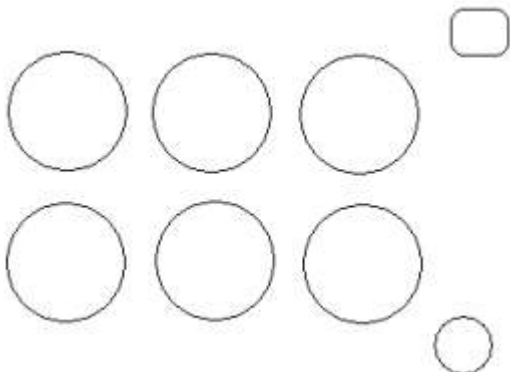
Method 1: “The trap door”



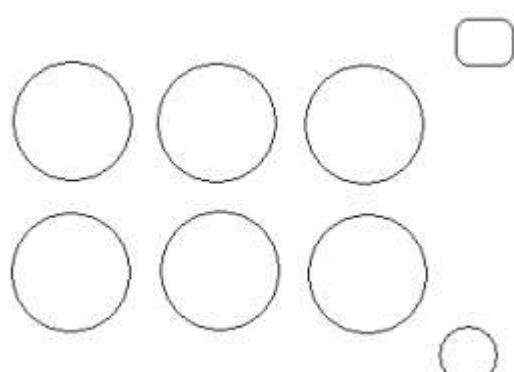
Method 2: “The inverted V”



Method 3: “The radial scan”



Method 4: “The circular scan”

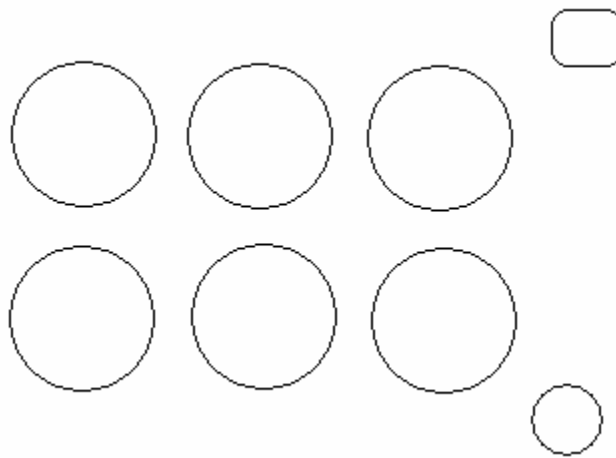


## Scanning Tips

1. Always go back to the attitude indicator.
2. Follow a musical beat
3. Keep your eyes moving (think of checking a watch)

## Instrument Interpretation

Label the flight instrument categories:



What altitude does the altimeter indicate?



What types of unusual attitudes do these instruments indicate?

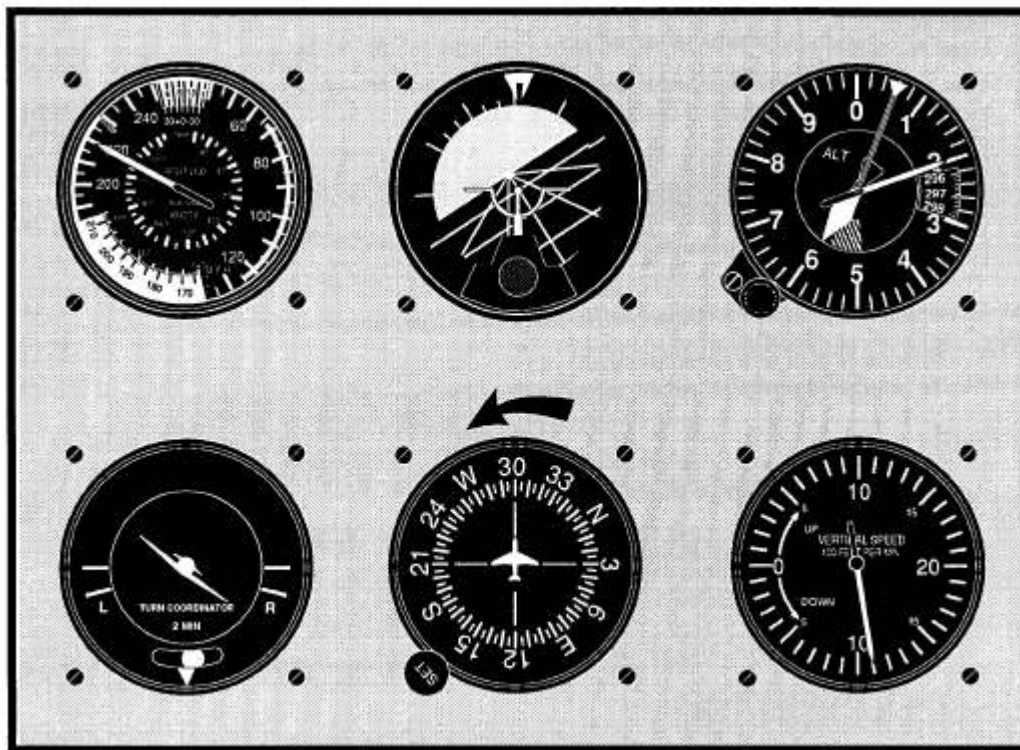


FIGURE 145.—Instrument Sequence (Unusual Attitude).

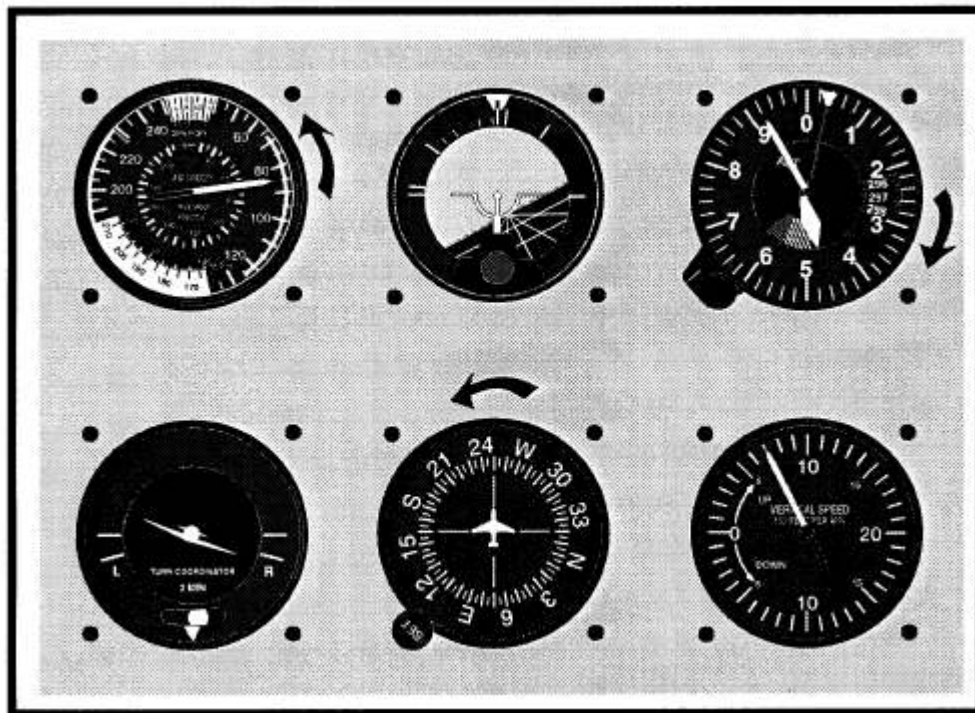


FIGURE 147.—Instrument Sequence (Unusual Attitude).

Which instruments have failed?

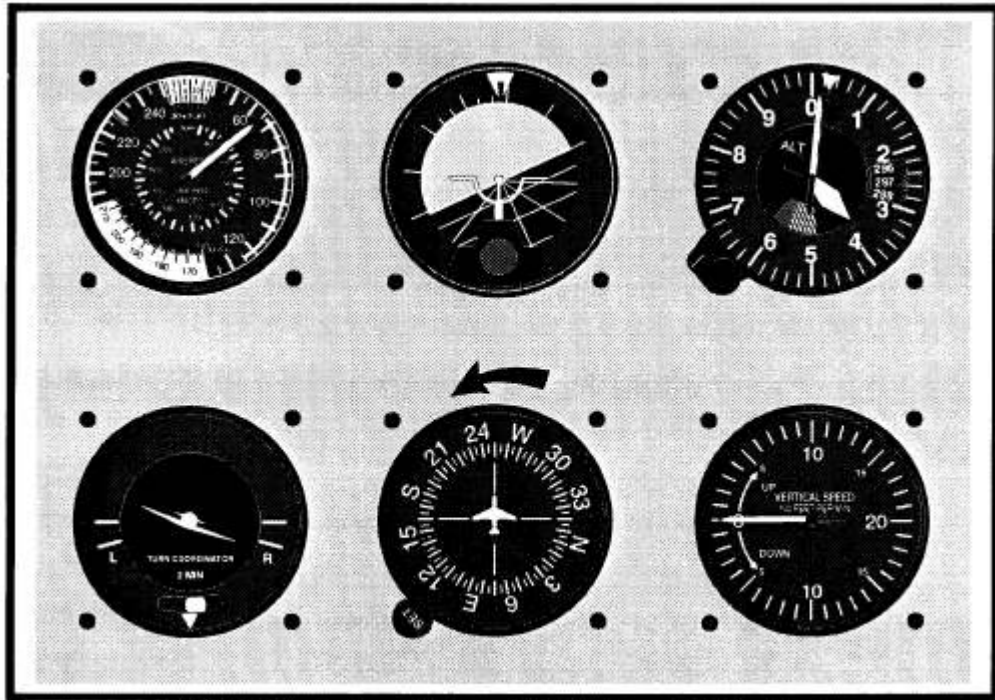


FIGURE 151.—Instrument Interpretation (Instrument Malfunction).

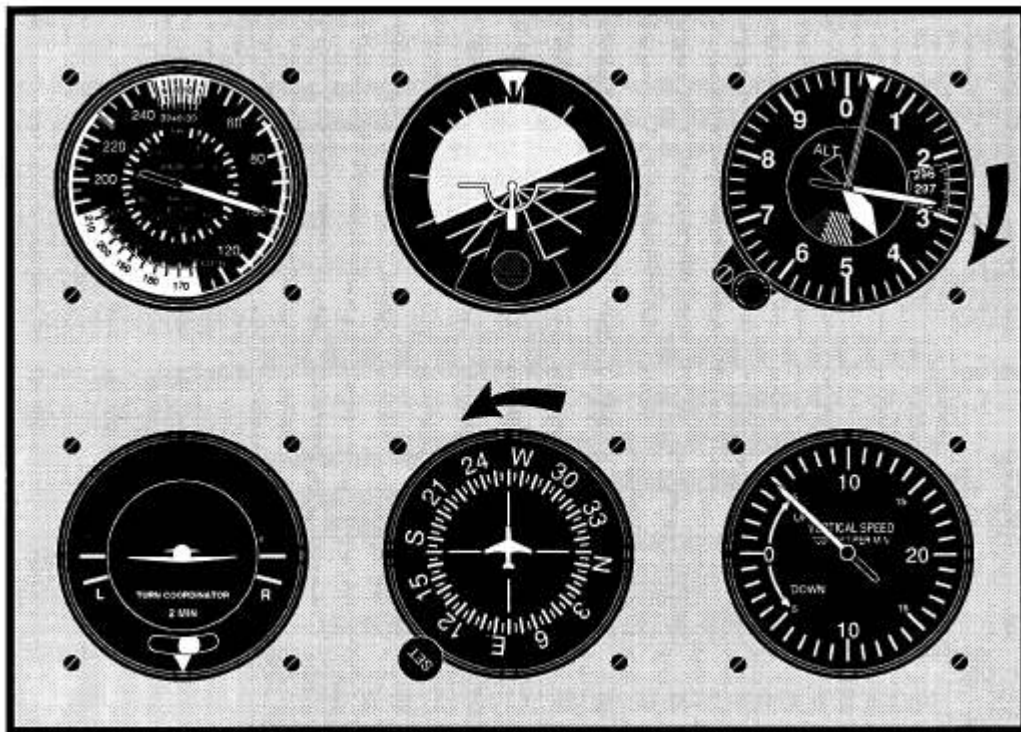


FIGURE 148.—Instrument Interpretation (System Malfunction).