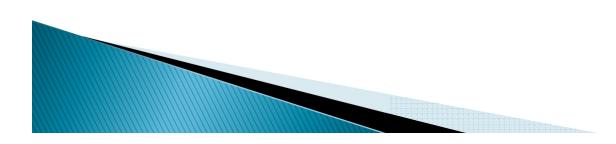
## Lightning Damage

Correlation is not Causation

- On Average there are 60 Thunderstorms per Year in Illinois. [80 in Southern Illinois]
- That means [60/365] 1/6 of the time that an electronic device fails it will be during a Thunderstorm.



## Evidence of Lightning Damage

- Evidence of High Voltage Surge (e.g. flashovers at terminals and relay gaps)
- High voltage damage to a capacitor (usually "run" capacitor)
- Verification of high voltage surge with power company
- High voltage damage to delicate circuit boards
- In motors evidence that winding is grounded out. (usually run vs. start winding)

## Lightning Damage Photos





