Common Commander SK Trip Codes
Possible Causes & Remedies

Drive is Inhibited - this is NOT A FAULT
- This is merely a status message indicating that the Drive Enable connection has been removed or not establish
- Verify the wiring between lower control terminals B2 and B4
- Verify that #6.15 is On- SyPT Lite downloads can turn this OFF

High OverCurrent detected on drive output-
- Check Pr41. If Fd, reduce Pr42=0 and re-try
- Ensure Pr3 and 4 are not set too fast - set for 20 each
- Ensure Pr9 is not greater than 0.95
- With motor disconnected, set Pr41=Fd and run drive up
  If drive trips – possibly a faulty transistor.
- If drive runs up ok- megger motor for 1000v
- If there is an Output Sinewave Filter check this Wiring !!!
- Possible shorted motor or motor lead between drive and motor
- Remove motor leads from drive and megger each free motor lead to Earth
  600-750v for 240vac motors and 1000-1200v for 460v motors

OverSpeed detected
- If this happens when you try to Stop or decelerate-
  - Increase Pr4 ( double ) and re-try
  - Turn on #2.06 and set #2.07=100 or more
  - Set Pr41= Fd

OverVoltage occurred – For a Fan or Pump App Google CTAN293 ←or click
- If this happens when you try to Stop or decelerate-
  - Set #6.01=0 for Coast Stop (if possible )
  - Increase Pr4 ( double/triple ) and re-try
  - Turn on #2.06 and set #2.07=100 or more
  - Set Pr41= Fd
  - You may need a dynamic braking resistor
- If this happens on power up- remove motor leads and re-try
  - Remove built in EMC filter the re-try-( Pull tab on SKA-D )
    Google CTTG151 ←or click for more information
  - Possible shorted motor or motor lead between drive and motor
  - Remove motor leads from drive and megger each free motor lead to Earth
    600v for 240vac units and 1200v for 460v units

If this happens when motor not running but just powered up-
- Suspect AC Power Line disturbances
- Possibly install an AC Input Line Choke
- A small DB resistor may be required as “Pressure Relief”
- Disconnect built in EMC filter the re-try

Consult or Google CTTG136 or click on ->> Input Power Problems
**HF** Hardware Fault- Google CTAN138 or click here **CTAN138**

**I t.AC** Timed OverCurrent Trip - results typically due to too much load (>100%) for too long of time
- Re-check motor nameplate data and drive setup parameter
- Re-check motor lead wiring inside junction box for proper ranges
- Does motor shaft turn easily by hand over a full revolution?
- Check Drive amp readout – cross check each motor output current with clamp-on ammeter
- Reduce output frequency/speed of drive in steps until problem disappears- sometimes a reduction from 60Hz to 58 will satisfy
- Turn on #4.16
  – For a Fan or Pump Application Google **CTAN293** or click

**O.Ld I** OverCurrent on drives +24v supply
- Label & remove all control wires to drive and retry
- Re-attach each removed wire one at a time
  - Offending wire (load) should be revealed
- May need an external +24v Power Supply if load is excessive
- See **CTAN336**

**cL I** Loss of a 4-20mA signal
- Check your 4-20mA input speed command signal by inserting a mA meter in series to verify current is >4mA

**SCL** Serial Communication Loss- if using a Remote Keypad unit
- Check your connections to the Remote Keypad
- Replace cable and/or Keypad unit and re-try
  - Depress Red Reset between attempts

**PH** Phase Loss-
- Check the phase to phase voltage with a rated VOM at input of drive
  - Both unloaded and loaded- look for sagging line
  - >3% difference may be problematic
  - May need input line reactor to help balance line
  - Check DC bus voltage >25vac ripple indicates line imbalance or failing cap bank on older drives
- If drive is being powered from single phase power, check that drive is rated for single phase operation!

**rS** Stator Resistance measurement problem
- Remove motor leads and measure phase to phase ohms of motor
  - Verify that each phase measures less than 65ohms
- Motor may be too small for resistance measurement checks
  - Change Pr41= Fd and re-try

**c.rt9** SmartStick Error code – typically occurs when data does not entirely match the drive rating information when performing a **rEAd**

**c.dAt** SmartStick Error code – can occur when trying to save data to the SmartStick using the **Pro9** command specifically if the SmartStick was inserted after application of power to the drive. Depress the RED reset button and re-try.

For questions call Control Techniques Technical Support-USA at 716-774-1193
Grand Island, NY 14072

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