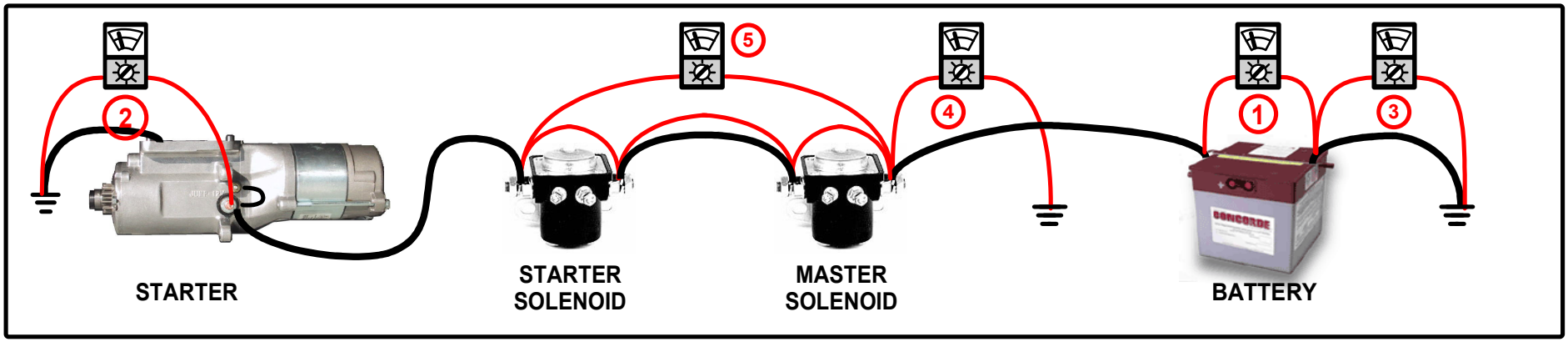
Sky-Tec

AIRCRAFT STARTER SYSTEM TROUBLESHOOTING GUIDE

REV_5.0

IMPORTANT: Do NOT use jumper cables - it will not work! If possible, use an analog (not digital) voltage meter



STEP 1

Record voltage at the battery while cranking:

_____ volts

STEP 2

Record voltage at the starter while cranking:

_____ volts

DIFFERENCE "D"

_____ volts

Record the difference in voltage here (i.e. total drop in system voltage)

STOP! Check Solution Below Before Proceeding

STEP 3

Check voltage from battery ground to aircraft ground while cranking

If more than 0.5 volts, ground or cable is bad

STEP 4

Check voltage input to master solenoid while cranking

If less than 9.0 volts, cables are bad

STEP 5

Check voltage across solenoids & links while cranking

If more than 1.0 volt, solenoid or link is bad

Double these voltages for 24V system

SOLUTION:

*20 volts for 24V system

A) If battery has less than 10* volts while cranking, the battery is bad

B) If battery has more than 10* volts while cranking, and voltage difference "D" is less than 2 volts, the starter is bad

C) If battery has more than 10* volts while cranking, and voltage difference "D" is more than 2 volts, the starter is OK. Proceed to Steps 3-5.

Is Solution "B" your answer?
Got a Sky-Tec starter?
Visit www.skytecair.com/obtainra.htm
to obtain a Return Authorization number.