BT705 Clamping Method Manual

The positive and negative clips of the battery inspection instrument are composed of two contacts that are insulated from each other (see Figure 1). When testing, make sure that each contact is in good contact and insulated from each other.

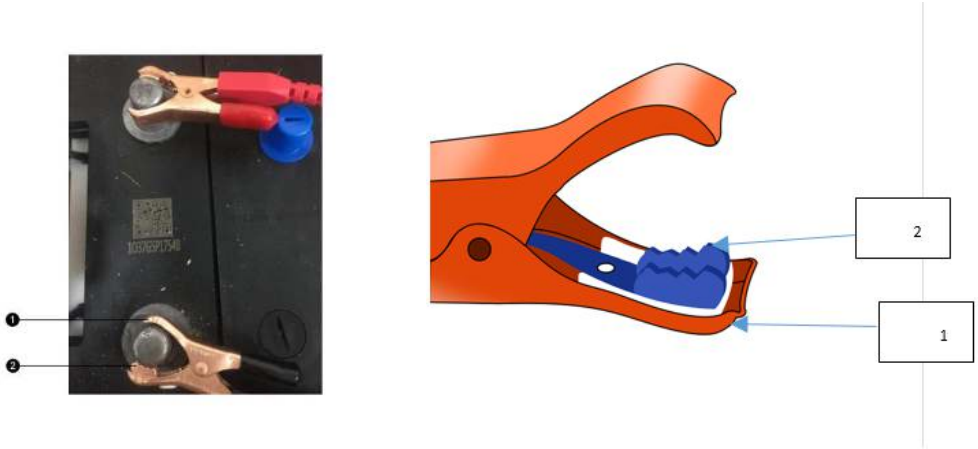


Figure 1

1: battery supply
2: battery signal

The results of different connect way for the same battery



all contactor are good contacted

Negative contactor 2 is out off touch

Positive contactor 2 is out off touch



Positive contactor 1 is out off touch



Negative contactor 1 is out off touch

The test results of BT705 under different clamping ways are sheet 1:

model	BT705					
battery info	12V 200AH CCA 1100					
red without sawtooth (battery positive)	1	0	X	1	1	1
red with sawtooth(The positive signal)	1	X	X	0	1	0
black without sawtooth (battery negative)	1	X	0	1	1	1
black with sawtooth(negative signal)	1	X	X	1	0	0
1:normal, 0:abnormity, X:any state, result:						
voltage	12.75	no boot up	no boot up	0.96	36.29	18.27
CCA	1351			9	48	7
SOH(%)	100			1	4	1
SOC(%)	100			0	100	100
RES(MR)	2.21			0	61.27	0
connection state	connect normal	battery positive off	battery positive off	positive signal off	negative signal off	positive and negative signal off

Conclusion：Make sure that both contacts of the positive and negative clips are in good contact to get right values.

NOTE:

If the negative contacts 1 and 2 are short-circuited, there is no effect on the reading of the voltage, but have huge impact on the health of the test battery value.