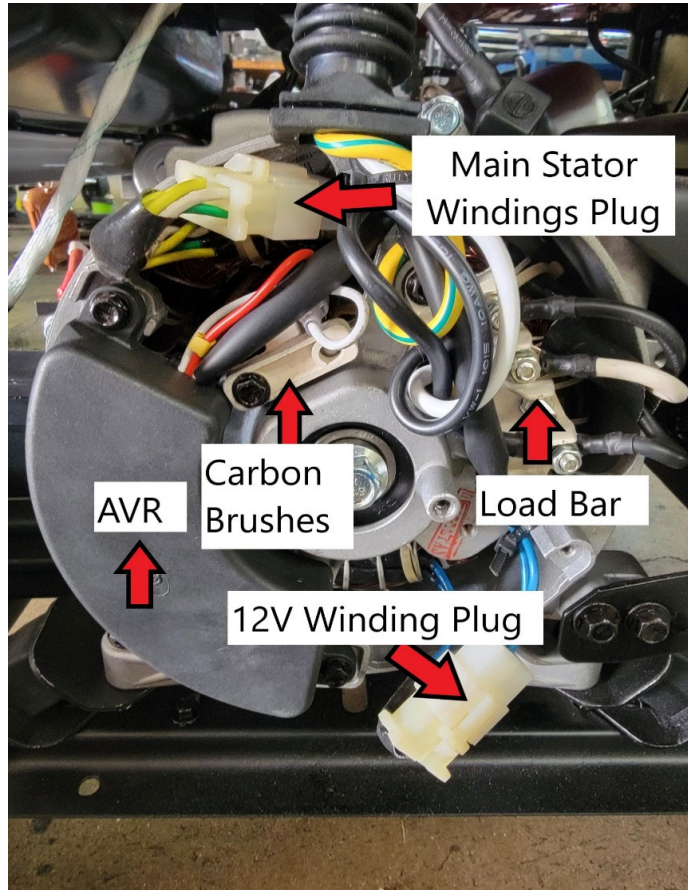
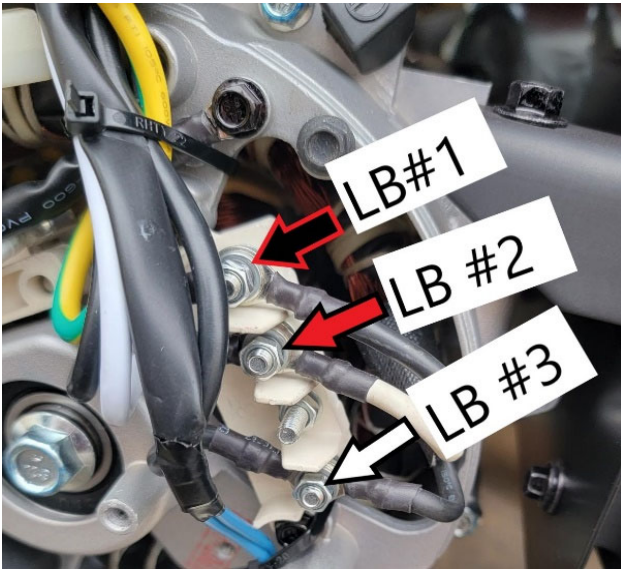


# AK10K Generator Set - Voltage Readings

## AK10K Generator Set - Table of Contents



## LOAD BAR Test- Main Stator Plug Connected

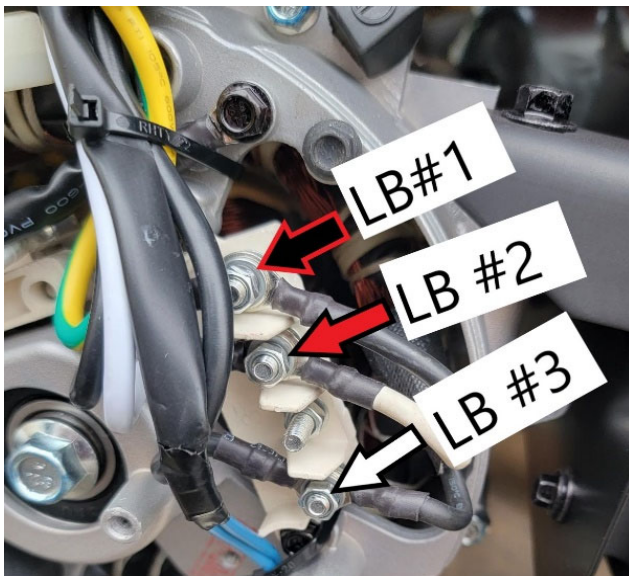


### Test Volts with unit running

#### Terminal to Ground

Top to Bottom	Volts
LB #1	120V
LB #2	0
LB #3	120V
LB #1 to LB #3	240V

## LOAD BAR Test - Main Stator Plug DISCONNECTED



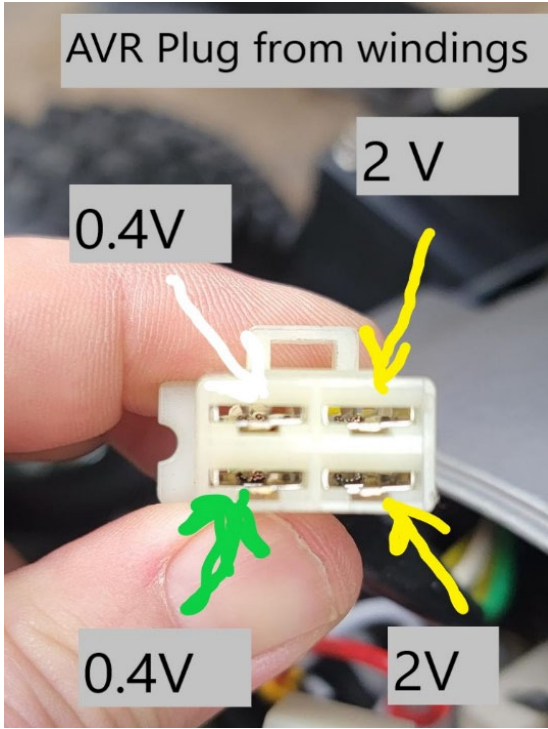
### Test Voltage

#### Make sure unit is running

#### Terminal to Ground

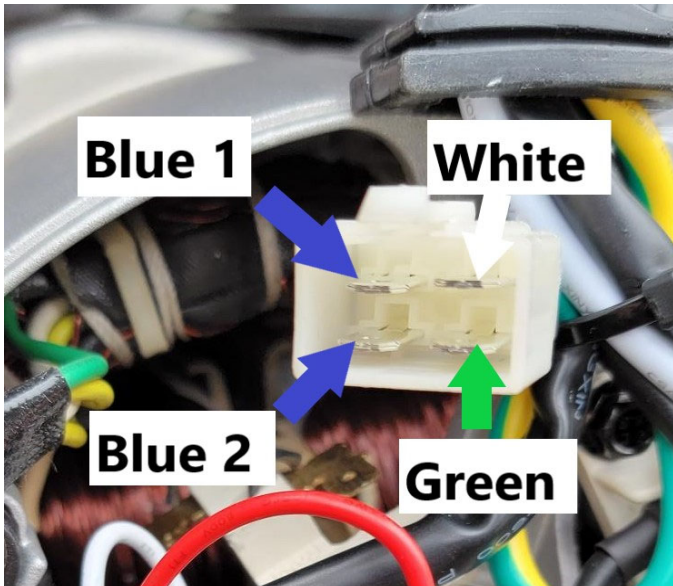
Top to Bottom	Volts
LB #1	4.7V
LB #2	0
LB #3	4.7V

### Main Stator Windings Plug - Female



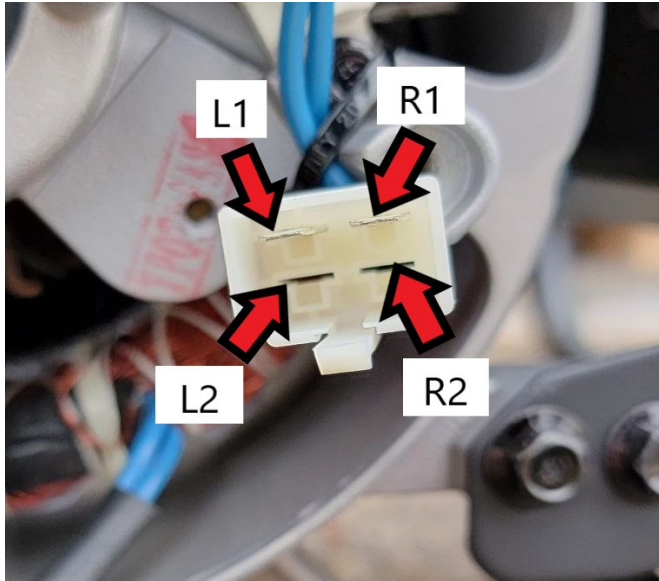
Test Voltage	
Make sure unit is running	
Terminal to Ground	
Color	Volts
Yellow Top	2V
Yellow Bottom	2V
White	0.4V
Green	0.4V

### Main Stator Windings Plug - Male



Test Voltage	
Make sure unit is running	
Terminal to Ground	
Color	Volts
Blue 1	0.3 V
Blue 2	0.3 V
White	0.3 V
Green	0.3 V

### 12V Windings Plug - Male



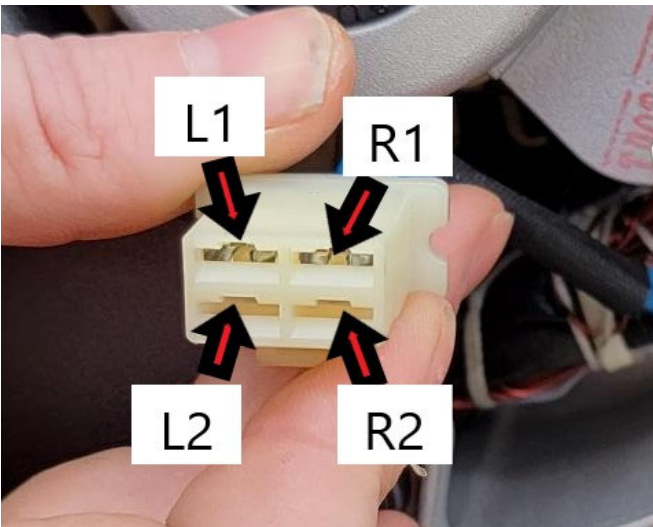
#### Test Voltage

Make sure unit is running

#### Terminal to Ground

Color	Volts
L1	0.4 V
L2	0.3 V
R1	0.2 V
R2	0.2 V

### 12V Windings Plug - Female



#### Test Voltage

Make sure unit is running

#### Terminal to Ground

Color	Volts
L1	15.6 V
L2	15.6 V
R1	11.5 V
R2	11.5 V

# Carbon Brush Inspection

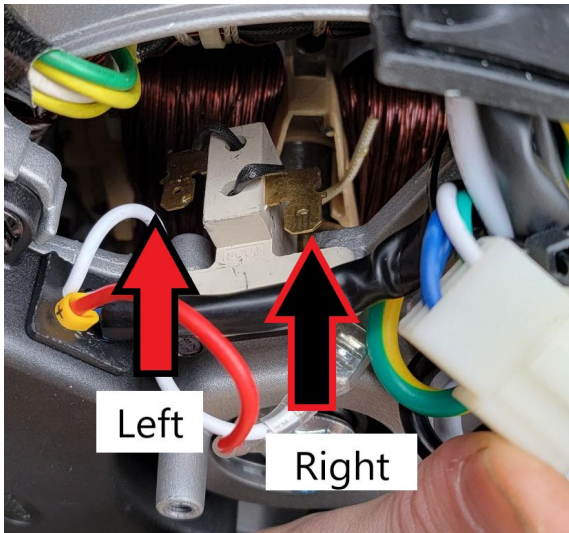
If they are worn, not equal in size or wiring damaged. These need to be replaced

## EXAMPLE OF BAD BRUSHES



## CARBON BRUSH VOLTAGE - AVR 2 Wires Disconnected

Disconnect Red & White Wires running from AVR to Brushes



### Test Voltage

Make sure unit is running

### Terminal to Ground

Side	Volts
Left	4.75 V
Right	3.4 V

### Test positive & negative

8.6 V