



Troubleshoot

# Start / Stop Switch

### Symptoms :

- Engine do not crank when press the start button
- Relay in the Fuse box do not “click” when put the lanyard In
- Ski do not turn off when press the press the stop button
- Ski do not turn off when lanyard is off
- Coil do not spark when engine cranking

### Causes :

- Faulty Power Fuse
- Faulty Starter Relay Fuse
- Faulty Main Relay
- Faulty Start / Stop Switch
- Faulty Starter Relay
- Faulty Starter Motor

## Requirement

Multimeter



## 1. Check the Power fuses

1. Remove the fuses from the fuse box
2. Visually check if the Power fuse is blown, if you are not sure you can use your multimeter as continuity mode and put the black probe on one pin of the fuse and the red probe on the other pin
3. If the Power fuse is blown or there is no continuity on the pins, **change the fuse**
4. If the fuse keeps blowing when Powering on the Engine by putting the lanyard in, **go to section 3 for “Check the Main Relay”**

## 2. Check the Start fuses

1. Remove the fuses from the fuse box
2. Visually check if the start fuse is blown, if you are not sure you can use your multimeter as continuity mode and put the black probe on one pin of the fuse and the red probe on the other pin
3. If the Start fuse is blown or there is no continuity on the pins, **change the fuse**
4. If the fuse keeps blowing
  - **go to the section 4 for “Start Stop Switch Test Sequence”**
  - **Test the Starter Relay (See “Starter Relay Troubleshoot” document)**

## 3. Check the Main Relay

1. Remove the Cover on the Fuse box
2. Remove the Lanyard off the start Stop Switch
3. Put the lanyard back on the Start Stop switch to hear the Main relay clicking
4. If the Main relay do not click or not sure :
  1. Remove the Main relay from the fuse box
  2. Take a multimeter set in Ohm (“Ω”) measurement or “200” if manual
  3. Test the resistance value between the pins of the Main relay
  4. Result of the resistance test :



*Main Relay*

Black probe Red probe	Main Relay - Pin 85	Main Relay - Pin 86	Main Relay - Pin 87	Main Relay - Pin 30
Main Relay - Pin 85	x	50 – 120 Ω	Open Loop – “OL”	Open Loop – “OL”
Main Relay - Pin 86	50 – 120 Ω	x	Open Loop – “OL”	Open Loop – “OL”
Main Relay - Pin 87	Open Loop – “OL”	Open Loop – “OL”	x	Open Loop – “OL”
Main Relay - Pin 30	Open Loop – “OL”	Open Loop – “OL”	Open Loop – “OL”	x

**If one of the tests is not correct, Replace the Main Relay**

#### 4. Start Stop Switch Test Sequence :

The “Beep” Sound is the continuity on the multimeter

1. Connect the Red Wire on the Red Probe of the Multimeter and the White Wire on the black Probe of the Multimeter

Test	Results expected
Put Lanyard	No Continuity or “OL”
Press All Buttons	No Continuity or “OL”
Remove Lanyard	No Continuity or “OL”
Press All Buttons	No Continuity or “OL”

2. Connect the Red Wire on the Red Probe of the Multimeter on Black Wire on the black Probe of the Multimeter

Test	Results expected
Put Lanyard	No Continuity or “OL”
Press All Buttons	No Continuity or “OL”
Remove Lanyard	No Continuity or “OL”
Press All Buttons	No Continuity or “OL”

3. Connect the Red Wire on the Red Probe of the Multimeter and Orange Wire on the black Probe of the Multimeter

Test	Results expected
Put Lanyard	No Continuity or "OL"
Press Start Button	Continuity or value 0 - 100
Press All other Buttons	No Continuity or "OL"
Remove Lanyard	No Continuity or "OL"
Press Start Button	No Continuity or "OL"
Press All Buttons	No Continuity or "OL"

4. Connect the black Wire on the black Probe of the Multimeter and White Wire on the Red Probe of the Multimeter

Test	Results expected
Put Lanyard	No Continuity or "OL"
Press Stop Button	Continuity or value 0 - 100
Press All other Buttons	No Continuity or "OL"
Remove Lanyard	Continuity or value 0 - 100
Press Stop Button	Continuity or value 0 - 100
Press All other Buttons	Continuity or value 0 - 100

5. Connect the Black Wires (both) on the black Probe of the Multimeter and Orange Wire on the Red Probe of the Multimeter

Test	Results expected
Put Lanyard	No Continuity or "OL"
Press All Buttons	No Continuity or "OL"
Remove Lanyard	No Continuity or "OL"
Press All Buttons	No Continuity or "OL"

**If one of the results is not correct, there is a start / Stop Switch issue**

**Contact your local dealer**

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