

#### 48 Volt Systems, AWG / Metric Wire Size mm<sup>2</sup>

Number of Turbines:	0-90 ft (0-27 m)	90 -250 ft (27-76 m)	250 -310 ft (76-95 m)	310 -500 ft (95-152 m)
1	14/2.5 mm <sup>2</sup>	12/4 mm <sup>2</sup>	10/6 mm <sup>2</sup>	8/10 mm <sup>2</sup>
2	12/4 mm <sup>2</sup>	8/10 mm <sup>2</sup>	6/16 mm <sup>2</sup>	4/25 mm <sup>2</sup>
3	10/6 mm <sup>2</sup>	8/10 mm <sup>2</sup>	6/16 mm <sup>2</sup>	4/25 mm <sup>2</sup>

#### 5-4 Stop Switch (Southwest Windpower part number 2-ARAC-101)

Southwest Windpower recommends the use of a stop switch to provide a convenient method for shutting down your AIR wind turbine. A switch is available for purchase from Southwest Windpower for the AIR 40.

Install and wire the switch as shown in **Fig. 13**. A “break then make” switch must be used. The switch first disconnects the battery and then shorts the turbine output wires together causing the turbine to stop spinning (in high winds the blades may spin slowly). Shorting the turbine does not cause any damage or additional wear on the unit.

The stop switch model offered by Southwest Windpower is sufficient for most systems, but it should not be used in applications where a code compliant switch is necessary.

**NOTE: The center post must be positive from the turbine. Outside posts can be swapped as either battery positive or battery/turbine negative.**

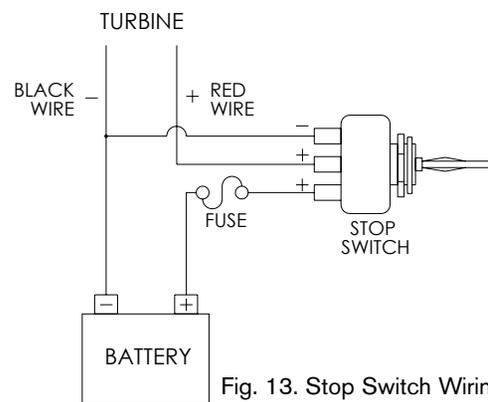


Fig. 13. Stop Switch Wiring

#### Stop Switch Assembly

1. Use either the rubber sleeved nut or the knurled nut but do not use both.
2. Drill 12 mm (0.4725 in) hole in panel.
3. The backing jam nut may be adjusted to allow the switch to mount flush with the panel.
4. No larger than 8 gauge wire should be connected directly to switch. Short lengths (inches) of 8 gauge wire may be used as a transition to larger gauge wire. Eye connectors are recommended.
5. Large gauge wire should be supported. The switch terminals are not to bear the weight of the wire.

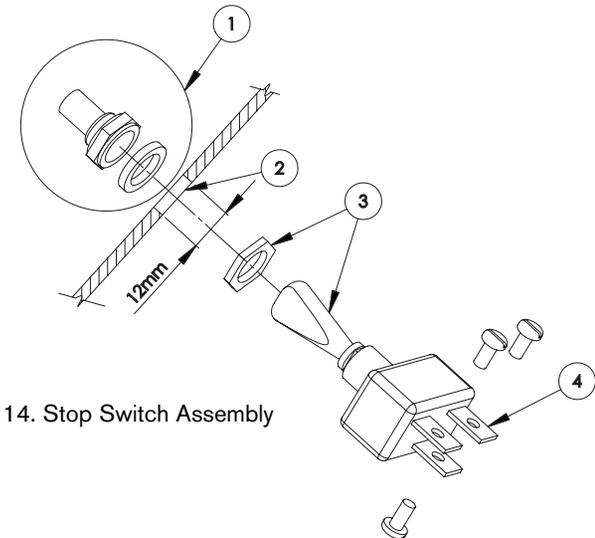


Fig. 14. Stop Switch Assembly