Kill Switch

GT Off-Road Racing | Data Acquisitions

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7/24/2020

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# 1.0 Overview/Function

The engine will turn off when you provide a path to ground. This means that for successful operation of the kill switches, they must be wired in parallel so that either switch being pressed will kill the engine.

It is also very crucial that the kill switches are wired very robustly, so all the connection are made using XT-30 connectors which are soldered on. It should be made sure that all the connections are soldered securely and tested using the “tug test” and then each connection needs to be covered using ¼” heat shrink that has glue so that the connection is very secure.

# 4.0 Revision History

7/24/2020 – Andrew Hellrigel – Added hardware theory of operation and parts list for 2020 car

# 5.0 References

## 5.1 Parts List

|  |  |  |  |
| --- | --- | --- | --- |
| Part | Qty. | Unit Price | Link |
| Ski-Doo Kill Switch | 2 | 25.99 | <https://www.mfgsupply.com/01-171.html> |
| 16 AWG Silicone Wire | 1 | 16.89 | <https://www.amazon.com/Silicone-Flexible-Stranded-Strands-MILAPEAK/dp/B07CMYVF3J/ref=sr_1_2?keywords=16awg+power+wire&qid=1573428598&sr=8-2> |
| XT-30 Connectors | 1 | 7.99 | <https://www.amazon.com/dp/B074S7NH3H/?coliid=IY55PN686S5J5&colid=1D08LI0X7AF2D&psc=1&ref_=lv_ov_lig_dp_it> |
| Heat Shrink | 1 | 10.98 | <https://www.amazon.com/270-pcs-Adhesive-Assortment-MILAPEAK/dp/B0771K1Z7Q/ref=sr_1_3?crid=SCOYQ0B34O8V&keywords=3+1+dual+wall+heat+shrink&qid=1579719780&sprefix=3%3A1+dual+wall+h%2Caps%2C573&sr=8-3> |