

turfRad Power Cable Kit v3

Assembly Instructions

Description:

The turfRad Power Cable Kit can be used to connect turfRad power from: 1) Direct switched 12V power, 2) USB power, 3) locking 12V / Cigarette lighter socket. We always recommend using the Direct wiring option with the Y-split cable, the installation instruction is detailed below. The second-best option is the locking 12V / Cigarette lighter plug. The USB adapter should only be used when you can ensure that your USB port is capable of providing 5V / 2A (2 Amp.). Many equipment models only provide 5V / 1A and are not marked as such.

Needed parts:

1	Power cable
2	Y-Split cable

Optional parts:

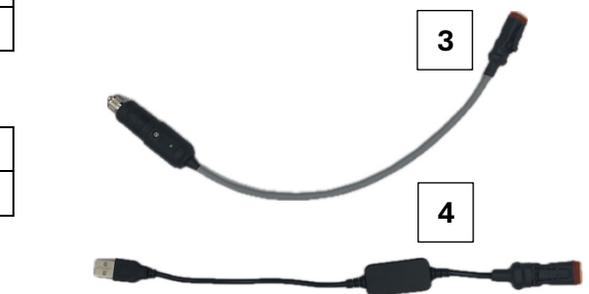
3	Locking 12V / Cigarette Lighter dongle
4	USB adapter dongle

Needed tools:

Electrical tape
Zip ties

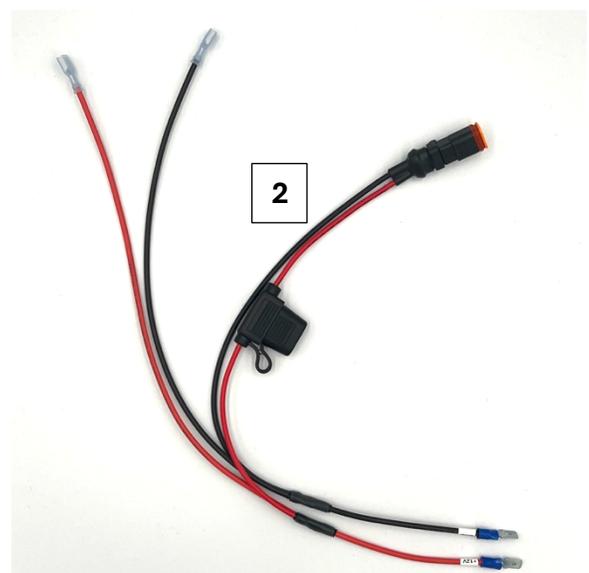


1

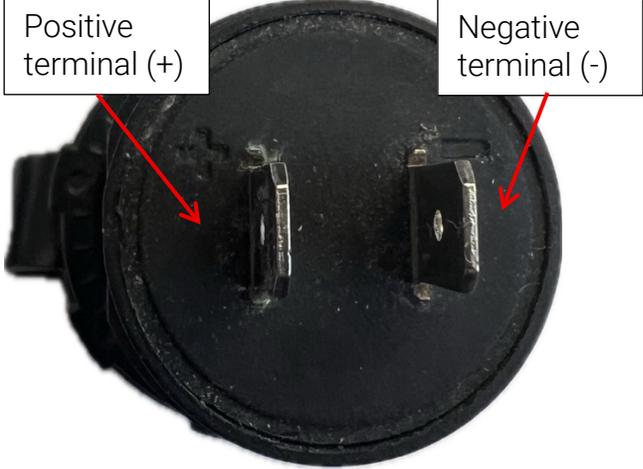
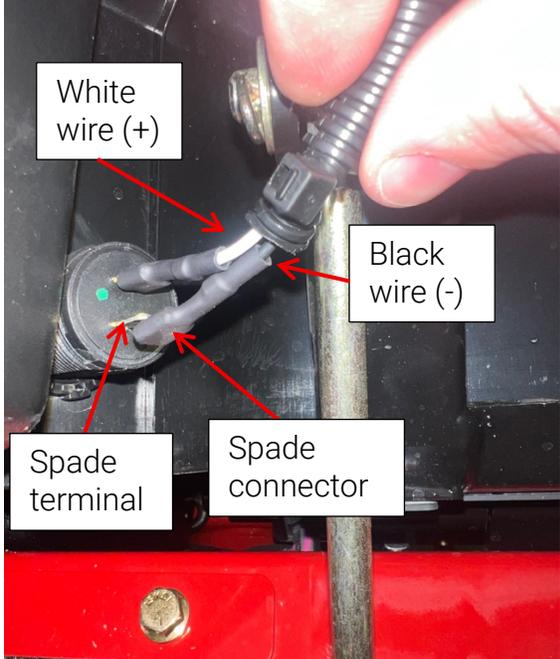


3

4



2

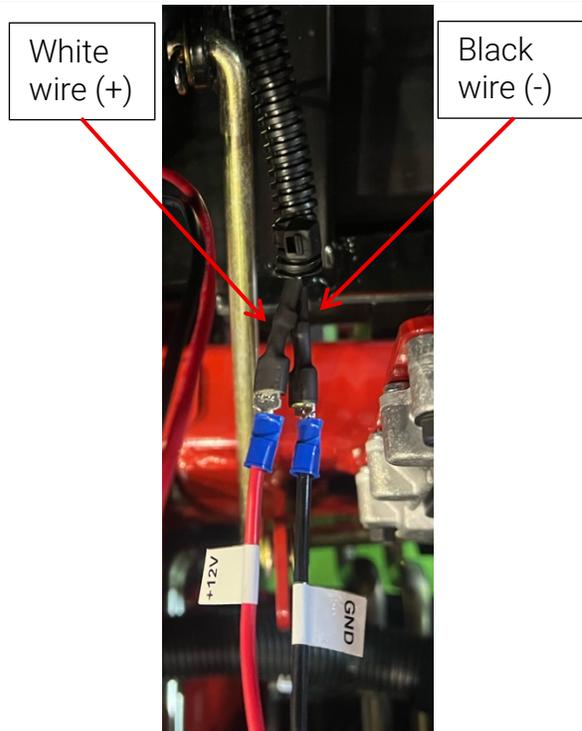
<p>1 Power off the mower/vehicle and disconnect the battery.</p>	
<p>2 Locate the access to the backside of the USB / 12V cigarette lighter socket. This may be under the seat, in the armrest, or under the dashboard of utility carts. If your machine does not have a USB / 12V socket installed, the wiring will likely still be present. If the wiring for the USB/12V is not present, there is often another switched 12V source such as auxiliary power port or "wireless hour meter" power connector. This will require splicing the wires.</p>	
<p>3 Pull the black cable protector up slightly and notice which spade/tab connector is connected to the 12V Positive (+) and Negative (-). The USB or cigarette lighter module likely will have small (+) and (-) markings, but these can be hard to see under the machine.</p> <p>Toro 5010-H: white wire (+), black wire (-) Other options: red wire (+), black wire (-)</p> <p>In the photo (right) the black wire has already been removed from the spade connector of the USB module.</p>	

- 4 Carefully pull the shrink tubed spade/tab connectors off the terminals. This will take some wiggling and reasonable application of force.



- 5 Connect the Positive (+) wire from the machine to the spade tab on the Red (+) wire of the turfRad Power Cable Kit Y-Split cable. Connect the Negative (-) wire from the machine to the spade tab on the Black (-) wire of the turfRad Power Cable Kit Y-Split cable.

Apply electrical tape or shrink tube to secure and insulate each connection from shorting.



<p>6 Connect the Positive (+) Red spade connector of the turfRad Power Cable Kit Y-Split cable to the (+) blade terminal on the USB / 12V module. Connect the Negative (-) Black spade connector of the turfRad Power Cable Kit Y-Split cable to the (-) blade terminal on the USB / 12V module.</p>	
<p>7 Connect the Bosch waterproof connector on the turfRad power cable to the Bosch waterproof socket of the turfRad Power Cable Kit Y-Split cable, you will hear a click when it seats properly.</p>	
<p>8 Secure the turfRad Power Cable Kit Y-Split cable using zip ties to an appropriate location avoiding direct contact to high-heat sources.</p>	
<p>9 Run and secure the turfRad power cable out of the wire conduit and across the bottom of the mower cowling / through the bed of the utility cart to the rear of the turfRad sensor. Plug the power plug into the back of the turfRad sensor.</p>	
<p>10 Connect the battery, check that the turfRad sensor does not power up immediately. Turn the ignition key to Aux power and check that the turfRad sensor turns on.</p>	

Disclaimer

This manual provides guidance on how to connect a sensor directly to a Toro golf mower. The instructions are offered as-is, without any guarantees or warranties regarding compatibility or performance.

Important Notice: TerraRad Tech AG will not be held liable for any damage, malfunction, or operational issues caused to the equipment (including the mower) as a result of following these instructions. By proceeding with this installation, you accept full responsibility for any risks or consequences, including voiding warranties or causing irreparable harm to the equipment. For professional advice or assistance, consult a qualified technician or the manufacturer of the mower.