

2020+ Slingshot Dual Battery Kit

STEP #1 – Electrically Safe Vehicle

*****Disconnect Negative Terminal from main starting battery and secure to “SAFE” vehicle electrically.**

*****Disconnect Positive Terminal from main starting battery and secure to “SAFE” vehicle electrically. (Move the terminal away from the OEM battery and cover with electrical tape to prevent a connection.)**

Gain access to SlingShot rear access panel cover by removing screws and push-pins

Assemble your battery to the battery tray using the threaded Battery Hold-down rods and the adjustable battery hold down strap. **(SEE ATTACHED DIAGRAMS)**

*** Place the 2”x8” rubber strip under the adjustable top strap and tighten down assembly.

Determine where you are going to mount the VSR on the battery tray. Use the VSR unit as a “template” to mark the two holes to be drilled. **Take note as to which way you want the VSR to face based on the exit of the MAIN POWER WIRE.

(SEE ATTACHED DIAGRAMS)

Assembling the VSR Unit

- 1) Remove the bottom cover from the VSR
- 2) Attach 12’ ft 6 AWG RED power wire to VSR post with RED DOT marked “Start Batt”
- 3) Attach 21” 6 AWG RED jumper wire to VSR post marked “Second Batt”
- 4) Pass the black ground wire through the small hole.
- 5) Replace the bottom VSR cover
- 6) Mount the VSR Unit to the tray using the included 8-32 bolts, washer and nylock nuts

Preparing the Electrical Ground

- 1) Prepare the frame ground by thoroughly sanding the black paint off the “push pin tab”. ***MUST BE COMPLETELY CLEAN OF PAINT and showing clean bare metal**
- 2) Slide included “U-Nut” over the cleaned and sanded grounding point
- 3) Mark spot to drill though the metal
- 4) Remove U-Nut and drill 7mm hole
- 5) Replace U-nut and M6 grounding bolt – DO NOT TIGHTEN YET
- 6) When making final connection, **SLIDE the Ring Terminals BETWEEN** the U-Nut and the sanded and prepared frame
 - a. You will be connecting both the Aux battery ground and the VSR ground.
- 7) Insert M6 bolt and tighten

Installing Tray

- 1) Place battery tray with battery and VSR Mounted - **(SEE ATTACHED DIAGRAMS)**
- 2) Use the Stainless "Square U bolt" on the rear position. Pass the U-Bolt from the bottom, so the bolt "straddles" the tray and the slingshot frame. From the top, place the stainless "top strap" washers and nylock nuts and tighten down.
- 3) Use the stainless cable tie on the rear most portion of the tray (towards back of bike). Pass cable tie from bottom through hole in the tray. LOOP cable tie around Slingshot frame and battery tray. Use a pair of pliers to tighten cable tie. ****NOTE-** once this cable is tightened, it cannot be loosened, only cut off. Cut off excess cable tie with wire cutter.

Routing Main Power Wire

- 1) COVER THE MAIN POWER WIRE IN THE PROVIDED LOOM.
- 2) Wrap some electrical tape or blue painter's tape over the distal end (opposite end from the rear battery) to "electrically safe" the wire.
- 3) Safely route and secure main power wire along to the frame to the front OEM Battery. You want to avoid anything that is sharp, abrasive, pinch points or hot.

See Slingmods Youtube install video for best routing path

- 4) Install auxiliary battery terminal bolt extenders on the OEM starting battery (provided)

Installing Fuse on Main Power Wire

(175 amp fuse is pre-installed)

- 1) Remove each side of the fuse cover by un-screwing – Set aside
- 2) Remove small red grommet from each side if covers – Set aside
- 3) Remove 3mm set-screw and metal ferrule insert from each side – Set aside
- 4) MEASURE 12" from the terminal end and make a clean, straight cut in the power wire.
- 5) Apply the fuse cover and red grommets from #1 and #2 over each end of the wire
- 6) Strip Power wire just under ½" from either side – **(You can use the metal ferrule / insert to measure exact length to strip wire.)**
- 7) Replace the set-screw into the fuse body (just "start" the set-screw)
- 8) **Insert each wire end into the metal ferrule/insert**
- 9) Insert the wire with ferrule/insert into the fuse body **WITH THE CIRCLE CUT IN THE FERRULE MATCHING THE POSITION OF THE SET SCREW** and tighten set screw (tight).
- 10) Tighten the plastic fuse covers so it "captures" red grommet with wire keeping the assembly water resistant.
- 11) Secure fuse holder with zip ties.

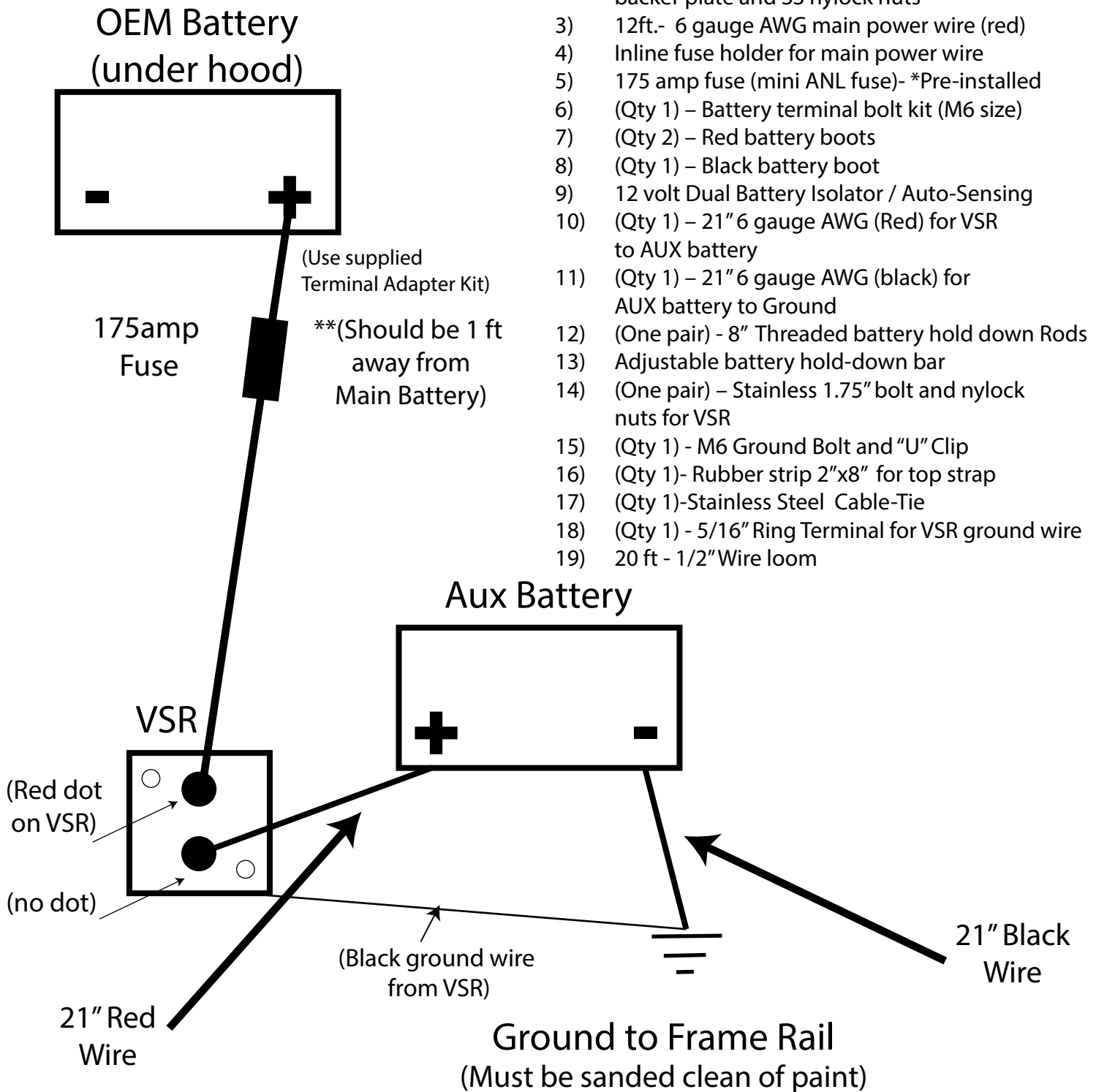
Making Final Connections - (SEE ATTACHED DIAGRAMS)

- 1) Connect Red Jumper from VSR to POSITIVE of auxiliary battery – USE RED BATTERY BOOT INCLUDED
- 2) Connect Black Jumper from Auxiliary battery to ground bolt AND connect the small VSR Black Ground wire – USE BLACK BATTERY BOOT INCLUDED
- 3) Install the provided battery terminal bolt extender on the Positive Terminal of the OEM battery.
- 4) Connect the vehicle OEM Positive Terminal.
- 5) Connect main power WIRE (FUSED END) to POSITIVE of OEM battery – USE RED BATTERY BOOT INCLUDED.
- 6) Connect OEM battery Negative Terminal.
- 7) Carefully check all connections to ensure they are tight and all remaining wires are secured with provided zip ties and loom.

Before closing up the rear access panel, start the vehicle and look at the VSR. If the small LED light is “ON” then the Auxiliary battery is being charged. ** Depending on the charge state of the battery, it may not require charging at this time.



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Parts List

- 1) 2020 Battery Tray – Custom Laser Cut Aluminium
- 2) (Qty 1) – Stainless Square U-Bolt, backer plate and SS nylock nuts
- 3) 12ft.- 6 gauge AWG main power wire (red)
- 4) Inline fuse holder for main power wire
- 5) 175 amp fuse (mini ANL fuse)- *Pre-installed
- 6) (Qty 1) – Battery terminal bolt kit (M6 size)
- 7) (Qty 2) – Red battery boots
- 8) (Qty 1) – Black battery boot
- 9) 12 volt Dual Battery Isolator / Auto-Sensing
- 10) (Qty 1) – 21" 6 gauge AWG (Red) for VSR to AUX battery
- 11) (Qty 1) – 21" 6 gauge AWG (black) for AUX battery to Ground
- 12) (One pair) - 8" Threaded battery hold down Rods
- 13) Adjustable battery hold-down bar
- 14) (One pair) – Stainless 1.75" bolt and nylock nuts for VSR
- 15) (Qty 1) - M6 Ground Bolt and "U" Clip
- 16) (Qty 1)- Rubber strip 2"x8" for top strap
- 17) (Qty 1)-Stainless Steel Cable-Tie
- 18) (Qty 1) - 5/16" Ring Terminal for VSR ground wire
- 19) 20 ft - 1/2" Wire loom



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