

# RV TOW Harness Wiring Kit

## INSTALLATION INSTRUCTIONS

Fits: Suzuki Grand Vitara

### Kit Includes:

- (1) Wiring Harness with 4-Flat Connector
- (1) 48" 4-Flat Extension
- (20) 15" Cable Tie
- (1) 4-Flat Bracket
- (3) #8 Self-Tapping Ground Screw

## RV TOW HARNESS INSTALLATION INSTRUCTIONS

1. Read instructions thoroughly before beginning.
2. Open the rear tailgate. Remove Cargo Cover and Floor Cover and set to the side. To remove threshold plate remove two push pins with a flat screwdriver and pull up on threshold. Set threshold plate to the side.
3. Starting on driver's side remove the tire jack from its compartment shown in **Figure 1** and set aside.



Figure 1

Gently pull the plastic side panel away from the body, taking care not to break the locking tabs, to expose vehicle's taillight connectors shown in **Figure 2**. They will be similar to those on RV harness. Repeat this step on the passenger side panel.



Figure 2

4. Starting on driver's side position RV harness with connectors containing Yellow wires between separated vehicle harness connectors. Press connectors firmly into vehicle connectors until they lock into place. Pull on connectors to

ensure the locks are engaged.

5. Locate a clean and accessible mounting location on the vehicle near the RV harness ends within reach of white wire and ring terminal. Remove any debris or undercoating to expose a clean metal surface and drill a 3/32" hole.

**\*Caution: Take care not to drill through the body or any exposed surface.\***

6. Attach ring terminal on the White wire using the ground screw provided.
7. Route portion of RV Harness with connectors containing Green wires down to bottom of side wall panel along the rear of vehicle and up behind passenger side panel. Repeat Step 4 for connector plugging.
8. Using a 10mm socket remove bolts on driver's side taillight. Remove taillight and set aside. Cut the cable ties on 4-Flat portion of harness and unplug the cream-colored 4-pin connectors.
9. Route the connector on 4-Flat portion of the RV harness through the opening behind the taillight. Push grommet back into hole around the 4-Flat wire. It may be necessary to make a slit in grommet. If so apply silicon around area to seal. Plug 4-pin connector back into portion of RV Harness on inside.
10. Starting at the left side of rear driver's side wheel well route a fish tape up and over to the right side. It may be necessary to remove clips on wheel well cover. Secure the 4-Flat connector to it and pull through the wheel well cover.
11. Underneath vehicle route 4-Flat wire above plastic shield shown in **Figure 3** and secure with cable ties.

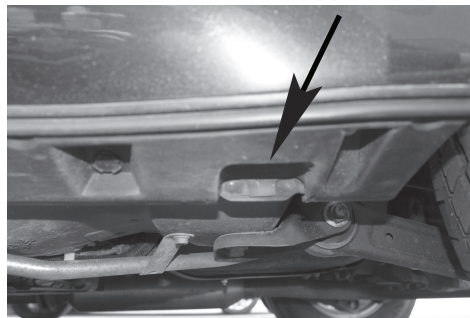


Figure 3

It may be necessary to remove plastic clips on shield.

12. Continue routing towards front of vehicle along inside of plastic shield until you reach the driver's side wheel well. **Caution: Make sure to avoid areas that contain moving parts or could cut, pinch or burn the wires when routing the 4-flat harness towards the front of the vehicle. Also avoid routing harness near the fuel lines as it may cause the fuel to ignite.**

**Failure to follow these warnings may cause property damage, personal injury or loss of life.**

13. From the front of wheel well route a fish tape up and over to the bottom right of the wheel well. It may be necessary to remove plastic clips for routing fish tape.
14. Once over driver's wheel well route over plastic splash shield to frame located near the radiator underneath vehicle shown in **Figure 4**.



Figure 4

15. Using the bracket as a template mark the two holes and drill two 3/32" holes and attach the bracket using two remaining screws.

**\*Caution: Take care not to drill through the body or any exposed surface.\***

16. With the 4-flat extension plugged into the RV harness on one end and the motorhome on the other, test that the functions work on the Suzuki Grand Vitara. These functions will only work on the brake/tail combination lamp.

### 4-Flat Harness Color Code:

- White - Ground
- Brown - Tail Lights
- Green - Right Turn and Brake Signal
- Yellow - Left Turn and Brake Signal

When not in use store the 4-flat extension in the vehicles glove box.

17. At the rear of the vehicle secure any loose wires to the vehicle's crossmember using cable ties provided. Re-install taillights to vehicle.

NOTE: THIS RV HARNESS ALSO INCLUDES A CONNECTION POINT LABELED "FOR TRAILER TOW USE ONLY: TAILLIGHT REQUIRED." IF YOU DECIDE TO LEAVE YOUR RV HARNESS ON THE VEHICLE AT ALL TIMES AND WANT TO TOW A TRAILER SIMPLY PLUG IN 4-FLAT HARNESS PART NUMBER 58919 AND YOU'RE READY TO TOW.