

# RV TOW Harness Wiring Kit

## INSTALLATION INSTRUCTIONS

Fits: Dodge Nitro  
Jeep Liberty

### Kit Includes:

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

## RV TOW HARNESS INSTALLATION INSTRUCTIONS

1. Read instructions thoroughly before beginning.
2. Open the rear tailgate. Using a flat screwdriver remove the plastic clips that hold both taillight assemblies to vehicle. Gently pull taillight away from the vehicle and locate vehicles factory wiring harness connectors. Separate connectors from both sides and set aside shown in **Figure 1**. Inspect connectors for dirt and debris and clean if necessary.



**Figure 1**

3. Starting on driver's side position the RV harness with connectors containing Yellow wires between separated vehicle harness connectors. Press connectors firmly into the vehicle connectors until they lock into place. Pull on connectors to ensure the locks are engaged.
4. 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.\***
5. Attach ring terminal on the White wire using the ground screw provided.
6. Route the remaining portion of the RV harness with connector ends containing the Green wire through the opening behind the taillight shown in **Figure 2**.
7. Route the portion of harness with the T-Connector ends containing Green wire to the Passenger side along the rear frame rail near the spare tire and secure the conduit to the frame rail using the cable ties provided. On passenger side route harness to avoid contact with exhaust.
8. Using a fish tape route the portion of harness with T-Connector ends containing Green wire up through passenger side opening. Once T-Connector ends are routed into taillight cavity repeat Step 3 for plugging.



**Figure 2**

9. Cut the cable ties on 4-Flat portion of harness. Route 4-Flat portion of the RV harness down through taillight opening. Route it along existing factory supports to existing factory wire harness securing with cable ties shown in **Figure 3**.



**Figure 3**

10. Fish 4-Flat above gas tank and continue routing towards front of vehicle until you reach the drivers side front tire. Mount a cable tie pad on the underside of vehicle between brake lines and drivers side wheel well shown in **Figure 4**. Secure with a cable tie.



**Figure 4**

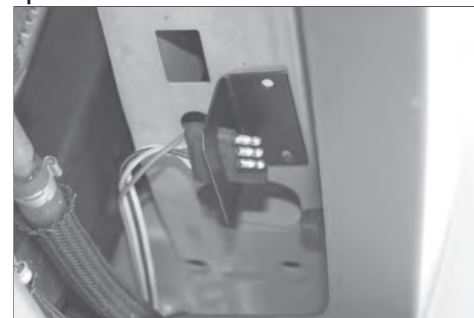
11. Remove three plastic clips at back of driver's side wheel well shown in **Figure 5** and set aside.



**Figure 5**

12. Starting at the left side of the driver's side wheel well route a fish tape up and over to the right side where the clips were removed in Step 11. Secure the 4-Flat connector to it and pull through the wheel well cover.
13. Continue routing 4-Flat connector to front of vehicle between the plastic brush guard and front metal frame.

14. Locate the front frame rail that goes across the front of the vehicle. Locate a suitable position to mount the 4-Flat bracket shown in **Figure 5**. Using the bracket as a template mark the two holes and drill two 3/32" holes and attach the bracket using the two remaining screws.  
**\*Caution: Take care not to drill through the body or any exposed surface.\***



**Figure 6**

15. 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 Dodge Nitro / Jeep Liberty. 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.

16. 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: 4-FLAT HARNESS 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.