

## INSTALLATION INSTRUCTIONS

### Bed Dump System: BDS-P-RAN1K

• Do Not Discard Packaging Until Product Has Been Successfully Installed •

Harness Cable  
(1pc)



Actuator Switch  
(1pc)



Actuator  
(1pc)



M12x60 Hex Flanged  
Bolt (2pcs)



M12 Nylock Nut  
(2pcs)

#### What You'll Be Doing

- 🔧 First, remove the front hood.
- 🔧 Remove the Cup Holder & Center Dash Console Cover
- 🔧 Remove the floor Center Console Covers To Back Seat.
- 🔧 Run Harness to front To Plug Into Junction Box
- 🔧 Run cable to switch in dash.
- 🔧 Plug in Switch
- 🔧 Run harness to back under seats.
- 🔧 Remove factory Bed Cylinder
- 🔧 Plug Actuator into harness cable
- 🔧 Test Actuator, try out before mounting
- 🔧 Install Actuator with supplied hardware
- 🔧 Zip-Tie cables out of the way.
- 🔧 Reinstall console and dash panels.



1. First, remove the hood, cup holder and dash panels. Release cup-holder and panels by removing the push-pins along the bottom and secured areas. See **Fig's.1-3**.



**Fig.1**



**Fig.2**



**Fig.3**

2. Next, remove the Center Console Covers all the way to the back seat as shown in **Fig's.4-7**. These are removed by releasing the push-pins as well.



**Fig.4**



3. When removing the rear console, you will need to unplug the cigarette lighter wires to be able to remove it out of the way. See **Fig.5**.



**Fig.5**

4. After removing the Console Covers, now raise the back seat to expose the area you'll be routing the harness through. See **Fig.6**.



**Fig.6**

· **Routing The Harness To The Front** ·

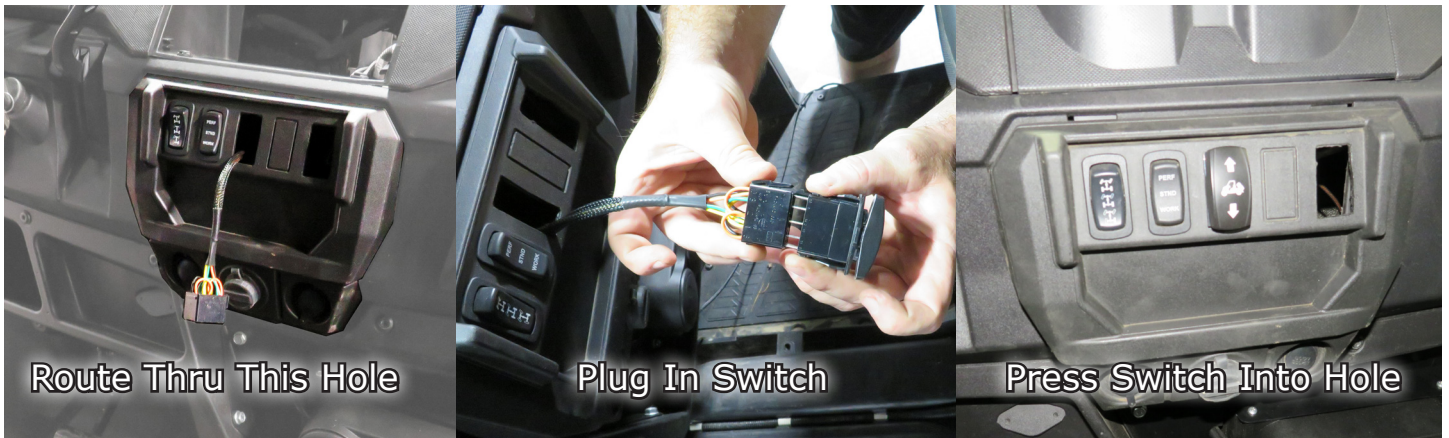
5. There are Two cables running to the front. One is to be plugged into the junction box in front and the other to your Lift Actuator Switch. First, run the harness with the two plugs up under the center dash area as shown in **Fig.7**.



**Fig.7**



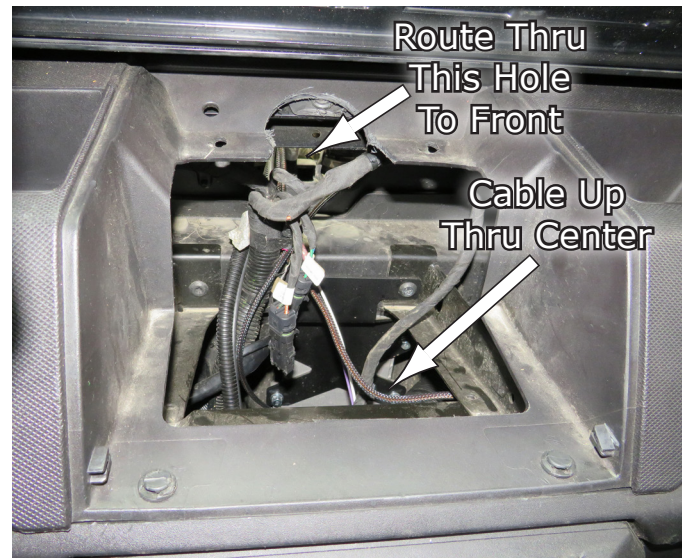
6. The large plug with several wires goes up and out the dash panel for the switch. You will need to cut the hole marked in the panel prior. Run the plug thru the hole and plug in the Actuator Switch, and install or press back into the panel as shown in **Fig.8**.



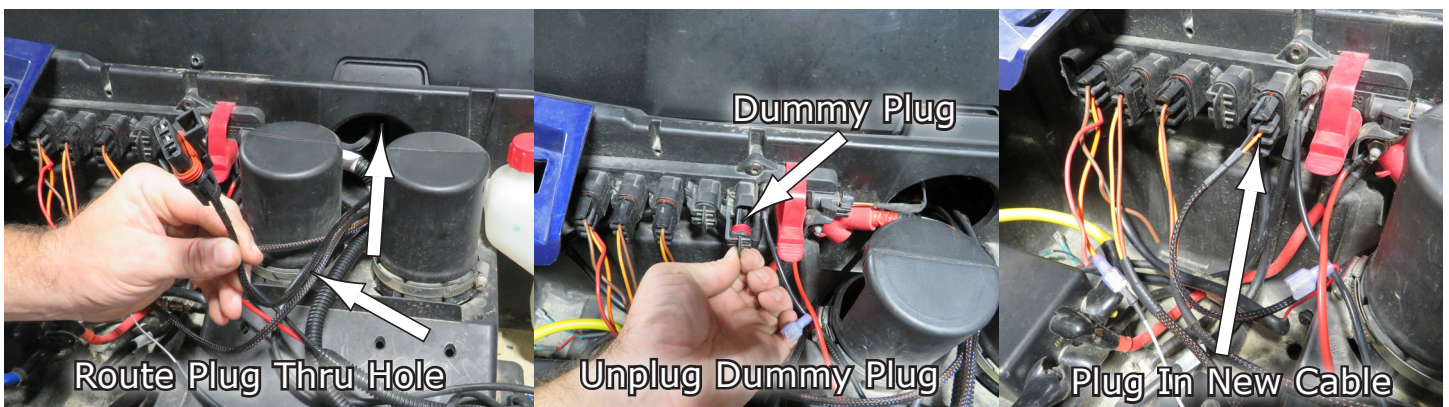
**Fig.8**

7. Next, run the other plug to the front compartment area under the hood, by routing it up thru the dash area as shown in **Fig.9**, and forward thru the firewall and out, as shown in **Fig.10**.

Fig.10 shows the cable coming out, then unplug the stock Dummy plug from the socket shown, and then plug in the remaining New Harness Plug into that socket, also shown in **Fig.10**.



**Fig.9**



**Fig.10**

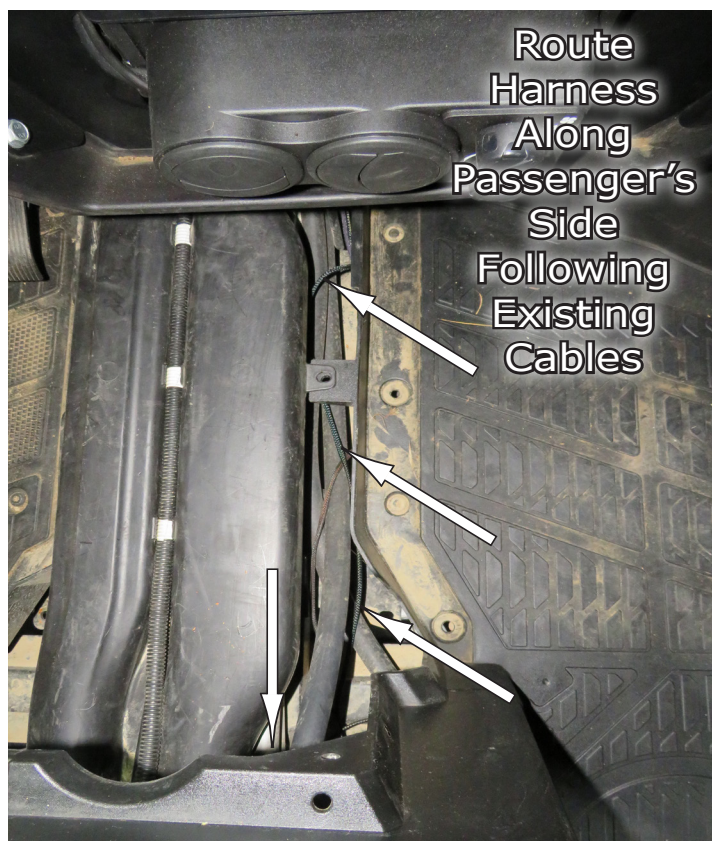


## · Routing The Harness To The Rear ·

8. To route the harness to the rear lift area, route the cable down along the console following the existing stock harness, under the front seats to the back seats as shown in **Fig.11**.



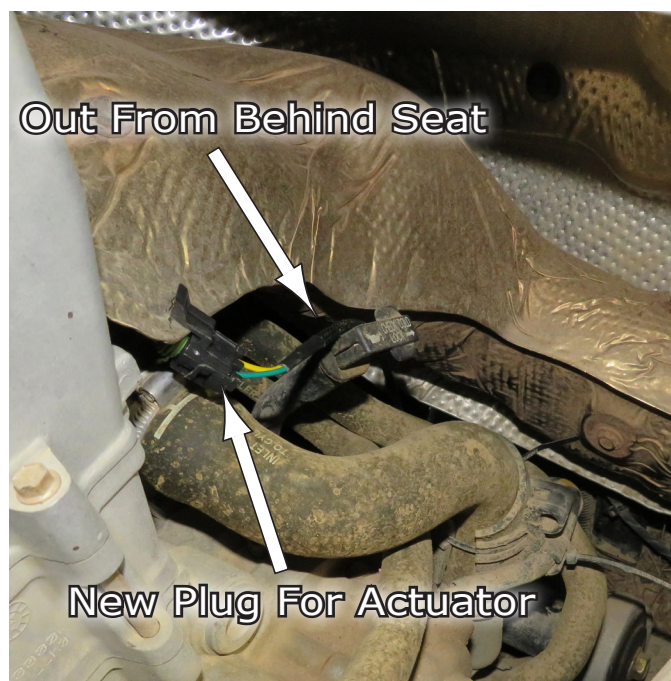
9. Now run it under the back seat and up to the battery area shown in **Fig.12**. Then run it straight back thru behind the seats out to the other side to the lift bed area as shown in **Fig.13**. Let it rest there until ready to plug into actuator when installing.



**Fig.11**



**Fig.12**



**Fig.13**



10. The next thing is to remove bed lock bar as you will not need this when using your new Bed Dump System. To do this, first you will need to raise the bed up in it's most upright position. Then you will need to remove the (3) 13mm Bolts holding Lock Bar in place first. After the bolts have been removed, then you can slide the bar out. These bolts are shown in **Fig.14**.



**Fig.14**



11. It may be Necessary to pull the Aluminum Shroud down a little bit In order to remove the Lock Bar. This will make it much easier to remove. Then, simply push it back in place. See **Fig.15**.



**Fig.15**



12. Next, you'll need to remove the Factory gas cylinder so you can replace it with your new Actuator. To do this, you remove the two pin clips, one on the top and one at the bottom of the cylinder.

**Fig.16** shows the top pin, and **Fig.17** shows the one at the bottom. Pull the pins and remove the cylinder.



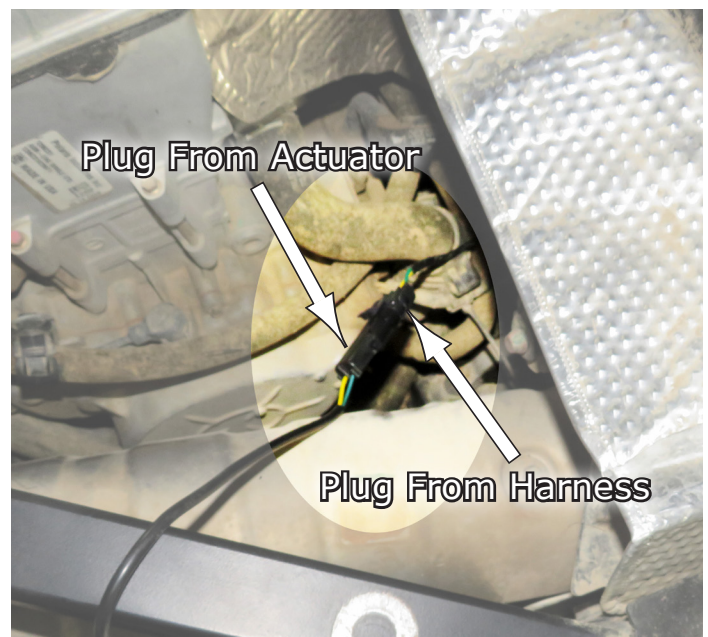
**Fig.16**



**Fig.17**

13. After the cylinder has been removed, you will need to test the actuator to make sure it extends and retracts as it is supposed to do. Do this quickly by plugging the cable from the actuator into the connector plug you previously pulled thru to the back and let rest back in **Fig.13**.

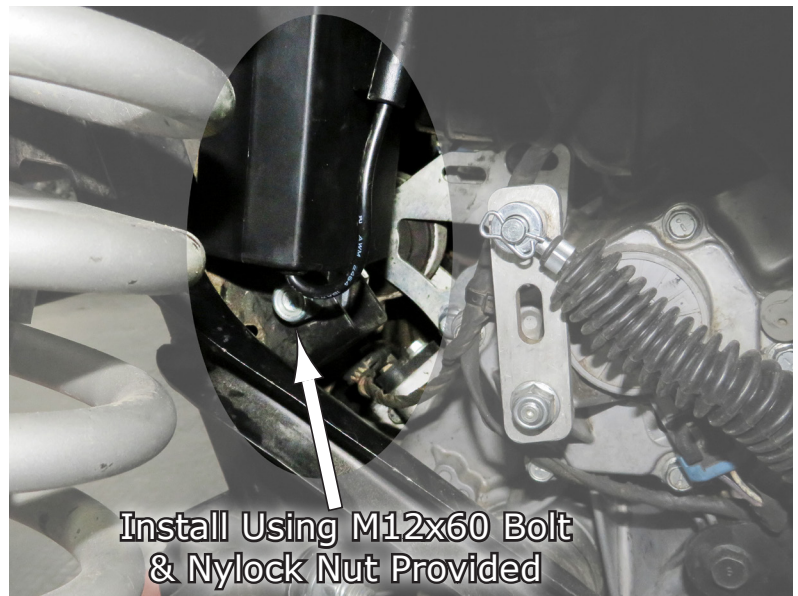
14. Next turn the key on and try out the switch you installed in the front panel and make sure the actuator extends all the way out and back in again. If it works as intended, leave the connectors plugged together, and you can now mount the New Actuator in place of the cylinder that you removed. **Fig.18** shows these connected together.



**Fig.18**



15. Now you're ready to install the actuator in place of the cylinder that you removed. Having the cables still plugged together, you install the actuator by mounting the lower connection point first using the M12x60 Bolt and Nylock Nut provided in your kit. **Fig.19** shows this mounting location which is the same point the cylinder was in.



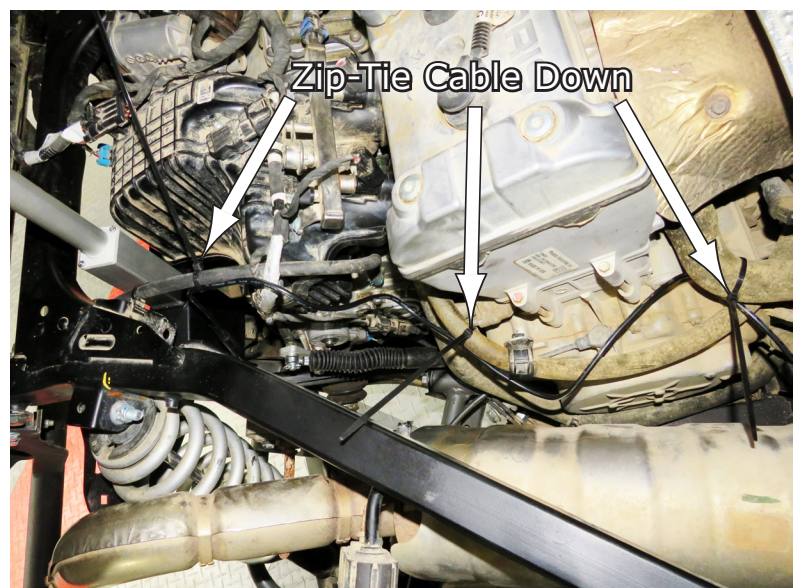
**Fig.19**

16. Once the lower bolt is in place, now connect the actuator at the top using the other M12x60 Bolt & Nylock Nut also provided in your kit. See **Fig.20**.



**Fig.20**

17. After the Actuator is securely installed, now zip-tie the cable down that's running to the Actuator securely and out of the way from extreme heat or rubbing etc. You choose your own location for this. See **Fig.21** for our example.

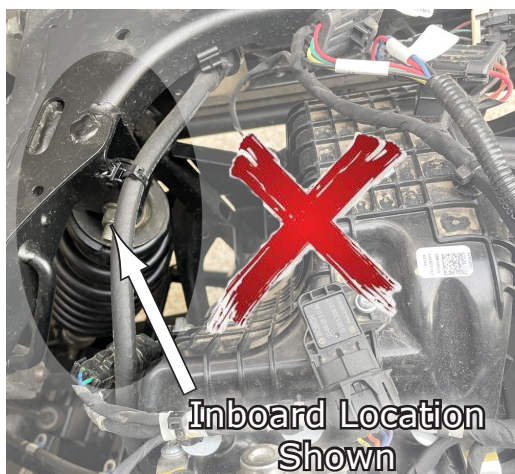


**Fig.21**

18. Now replace you console covers and any other items removed when starting, and you're good to go.



**NOTE:** When installing this kit, you will need to check the position of the rear shocks to make sure they are installed in the proper mounting location to ensure proper function of your kit. There are two different upper mounting locations. One is the **INBOARD** location and the other is the **OUTBOARD** location. **Fig.A** shows the shock mounted in the **INBOARD** location which is the **WRONG** mounting location for this kit. If yours is in this location now, you will need to move it to the other side of the frame to the Outboard mounting location. **Fig.B** shows the shock still in the Inboard location, but you can also see the **OUTBOARD** location bracket identified, which is the **CORRECT** mounting location. You will need to move the upper shock mount to this location! Repeat for opposite side.



**Fig.A**



**Fig.B**

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8:00am - 9:00pm EST M-Th  
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