



DV8 Electric Steps INSTALL INSTRUCTIONS

421 Main St
Riverside, CA 92501
(951) 680 9595
DV8Offroad.com

P/N ESJK-01

Hardware:

Note: You will have extra hardware when finished with this install.

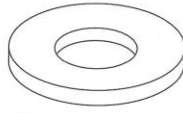
Refer to this chart throughout the install



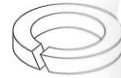
⑥-Flat Washer×2
GB/T95-1985 8
(4-door only)



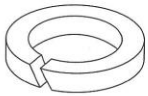
⑦-Flat Washer×4
GB/T95-1985 6



⑧-Flat Washer Grade A
GB/T96.2-2002 8
(2-door×16, 4-door×12)



⑨-Spring Washer ×4
GB/T93-1987 6



⑩-Spring Washer
GB/T93-1987 8
(2-door×16, 4-door×14)



⑪-Posi-taps
(4-door×4)
(2-door×2)



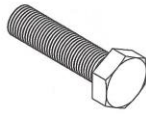
⑫-Locking Nut F×4
6118100.3



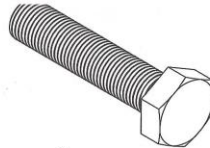
⑬-Adaptor JP4×2
6124100.0-1
(4-door only)



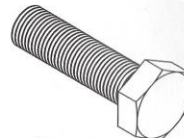
⑭-Socket Cap Bolt ×8
GB/T70.1-2000 M6×20



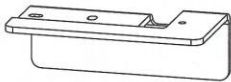
⑮-Hex Bolt
GB/T5783-2000 M8×20
(2-door×10, 4-door×8)



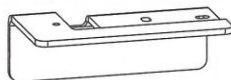
⑯-Hex Bolt ×4
GB/T5783-2000 M8×35



⑰-Hex Bolt ×2
GB/T5783-2000 M8×25
(4-door only)



⑱-Back Transition Plate Assembly JP2-L×1
6124110.0-3L
(2-door only)



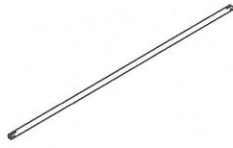
⑲-Back Transition Plate Assembly JP2-R×1
6124110.0-3R
(2-door only)



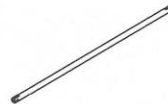
⑳-Nut×2
GB/T 6170-2000 M8
(2-door only)



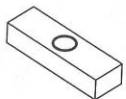
㉑-Lock Nut×4
GB/T889.1-2000 M6



㉒-the Connection Axle JP4×2
6124111.0-2
(4-door only)



㉓-the Connection Axle JP2×2
6124110.0-4
(2-door only)



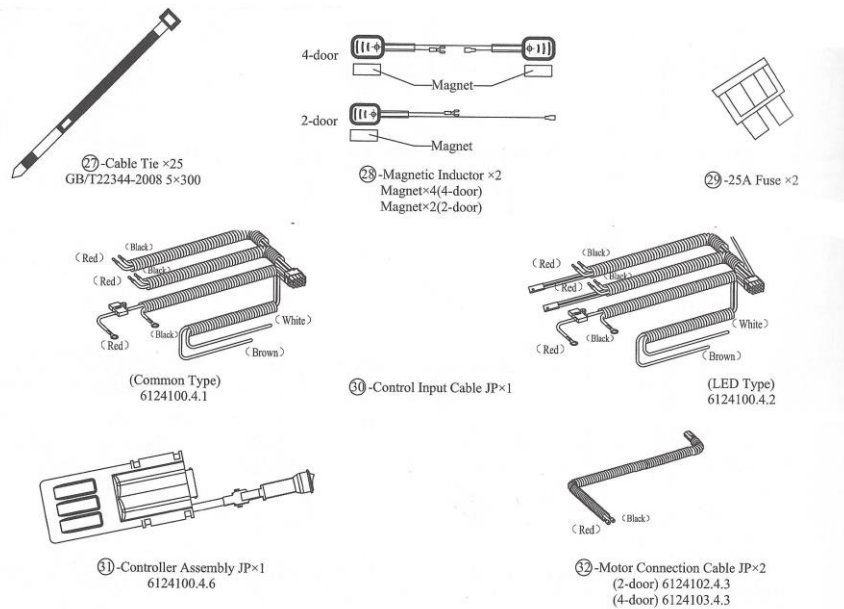
㉔-Mounting Nut JP2×2
6124110.0-5
(2-door only)



㉕-Stud Bolts A×2
GB/T900-1988 M8×25
(2-door only)



㉖-Socket Cap Bolt ×4
GB/T70.1-2000 M6×25



READ INSTRUCTIONS ENTIRELY BEFORE INSTALLING PRODUCT

MOTOR & SPRING ARM INSTALL:

NOTE: Installation of DV8 Electric Steps requires minimal drilling of the pinch seam. The pinch seam comes with holes in it from the factory. Installation requires drilling 1 hole in the rear and widening a hole in the front on each side. Use some touch up paint on all drilled areas to ensure corrosion resistance.

1. Begin the installation by measuring 4 ¼" in front of the pinch factory pinch seam hole shown in Fig. 1. Use the outermost threaded holes on the motor as a template for this measurement if necessary.



FIG. 1

Utilize progressively larger drill bits or a 'stepped' drill bit to meet the required size (approx. 3/8").

2. Loosely install the spacer plate wedge (Hardware 13, 6, 10, 17) to the factory threaded hole (Originally for Rubicon sliders) there is no left or right wedge plate, the thick part of the wedge should be toward the frame with the recessed holes facing downward (Fig. 2)

- Note: When fully installed the wedge plate will be crooked, it is designed to be crooked once fully tightened.



Fig. 2

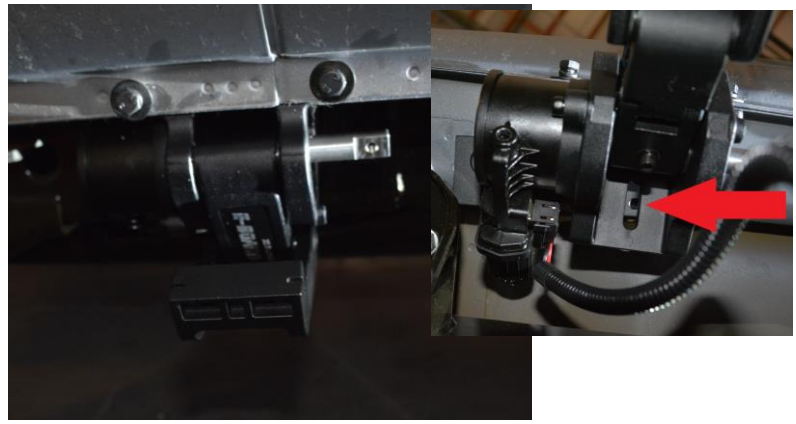


Fig. 3

3. Loosely install the motor (Hardware 15, 10, 8, & 16) attaching it at the pinch seam and through the threaded hole in the spacer plate (each motor is marked with a sticker indicating its appropriate location) (Fig 3.)



Fig. 4

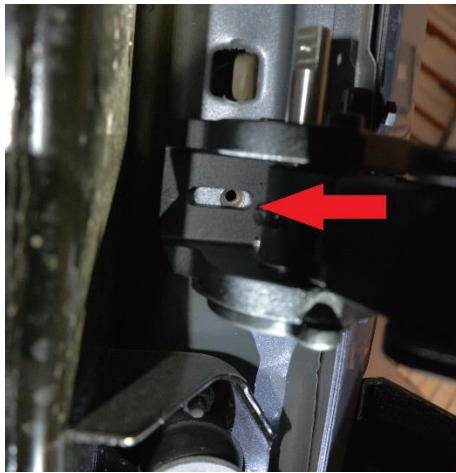


Fig. 5

4. Now loosely install the front non-motorized arm using the factory pinch seam holes (you may need to use a drill to wallow out one or both of the holes in order to get the bolts through the pinch seam holes (There is no wedge plate for the front hole). (Fig. 4 & 5) (Hardware 15, 10, 8, 17)

Actuating Axle & Step Install:

Now that you have both front and rear arms installed it's time to install the actuating axle in between the two arms.

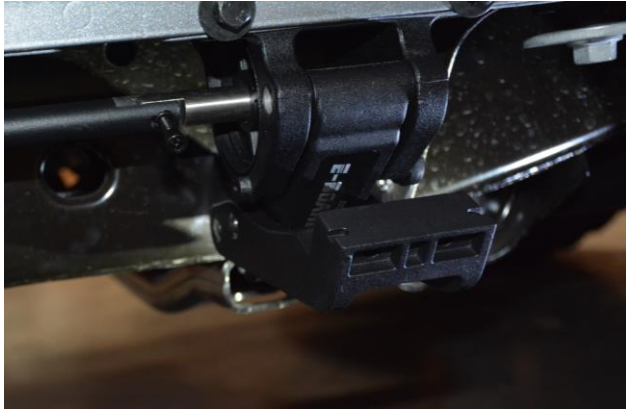


Fig 1A

1. As seen in Figure 1A place the slotted female end of the axle (Hardware 22) over the slotted male rod end of the motor and the spring arm. Then using the longer small allen head bolt and the small locking nut attach the axle to the rod on both sides. (Hardware 26, 9, 7, 21)

Note: The rods are threaded as a safety precaution so that the axle will never fall out while operating the vehicle.

2. Once you have secured the axle on both rods and tightened locate the wiring harness and connect it to the motor arm (you are not wiring the motor yet) hold the positive and negative terminals to the battery and press the red button causing the motor to extend allowing you access to all of the connecting bolts. At this point tighten up the bolts in the pinch seam and the ones indicated in Fig 3 & 5 and the bolt from Fig 2.

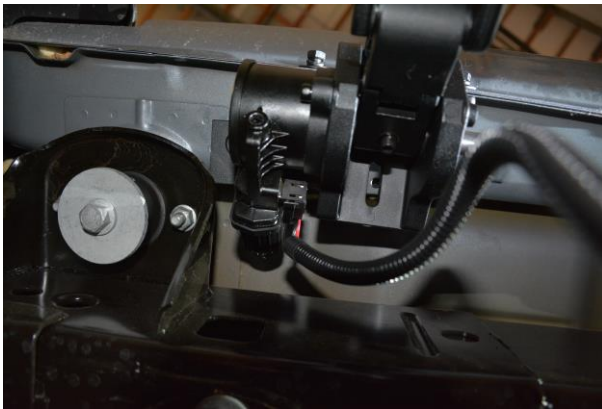


Fig 2A



Fig 3A

Note: Once the arm is extended you can remove the wires from the battery and it will stay out.

3. Now locate the sliding mounts located on the actual step itself (Fig 4A) insert each slider into the gap cut out for it in both arms indicated in (Fig 5A) and secure using the shorter small allen head bolts. (Hardware 14)



Fig 4A

Fig 5A

- Slide the step into position and finish tightening the bolts. (Fig 6A)



Fig. 6A

- Now using the steps outlined in step 2 return the motor to the “tucked” position and make sure that the step lines up to your liking.

****Repeat all steps on the opposite side****

Wiring Instructions:

Now that you have the steps installed on both sides of the Jeep it is time to wire the steps up.

- Unplug the wires from the motors with the connection shown in Fig 7A on both sides

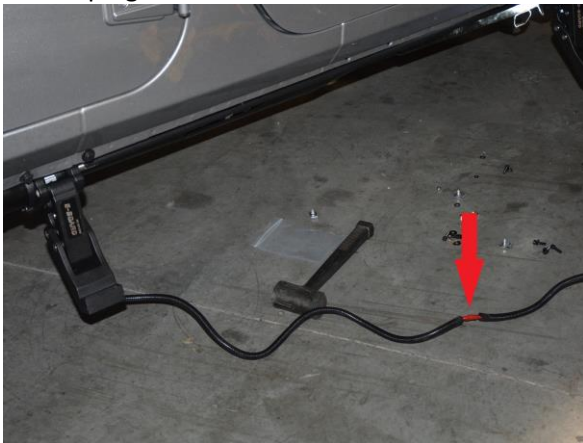


Fig 7A



Fig 8A

- Now attach the negative and positive (red & black) wires (Hardware 31, 30) to the battery and remove the inline fuse to avoid the chance of electric shock or fire. Fig 8A
- Locate the white and brown wires, white goes to the driver side and brown goes to the passenger side. Starting with the driver side route the longer wiring harness and the white wire across the engine bay zip tying it to the factory harness shown in fig 9A and down through the engine bay and to the frame making sure to avoid any heat dissipating or moving components securing it with zip ties as you go.

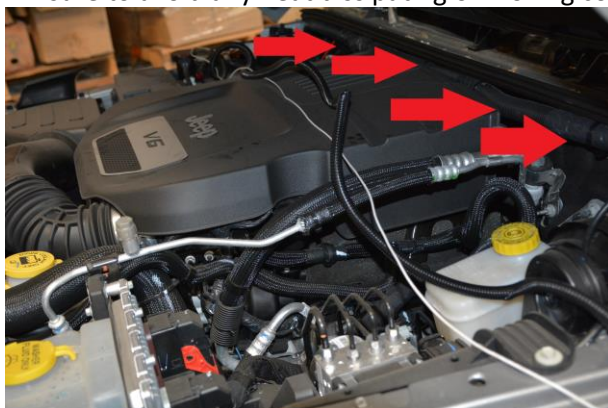


Fig 9A

9. Route the harness above the frame out of the way of any moving components and plug it into the section that is plugged into the motor. (Leave the white wire out of the zip ties it will be routed to a different area)
10. Lift up the carpet underneath the driver seat (Fig 10A) and locate the rubber plug. Pull the plug out and cut a small hole in it. Route the wire through the small hole in the plug and then place the plug back into the hole from where it originally came (Fig 10A)



Fig 10A



Fig 11A

11. Remove the factory trim panel shown in Fig 12A by removing the 2 plastic clips highlighted, Open the small door that is on the inside of the support between the front a rear door (Fig 13A)



Fig 12A



Fig 13A

12. Locate the signal indicator shown in Fig 14A (Hardware 28) and install it inside of the cubby shown in Fig 13A by using the other 2 small locking nuts (Hardware 21) to attach the ground wire to the stud shown in Fig 15A

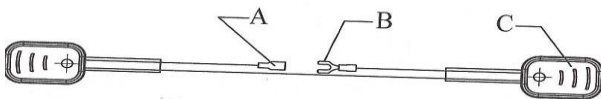


Fig 14A

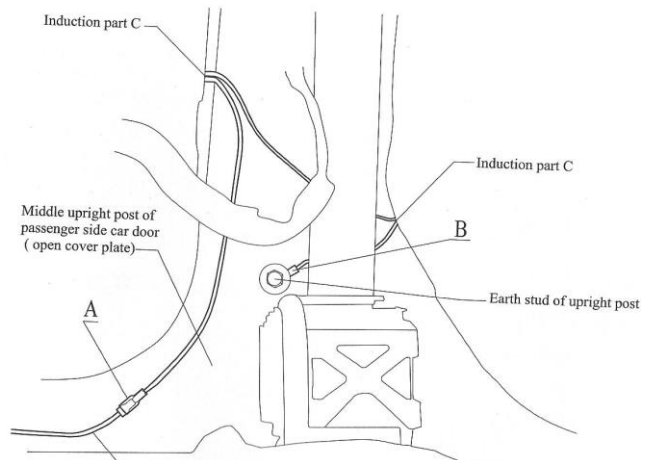


Fig 15 A

13. Connect the open end of the plug to the white wire shown in Fig 15A and in Fig 16A and route the signal receivers behind the plastic and use the double sided tape on the back of them to mount them as shown in Fig 17A



Fig 16A

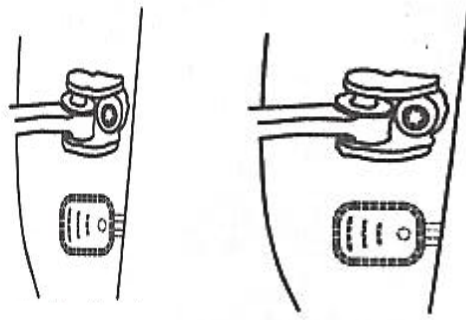


Fig 17A

14. Now place the magnets on the door so that they are parallel (Fig 18A) with the signal indicators when the door is shut, you may need to stack the extra magnets in order to get a signal strong enough to activate the actuator.

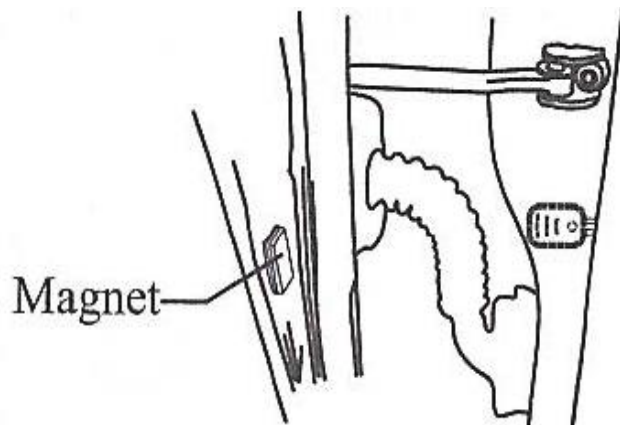


Fig 18A

15. Once all magnets are placed test to ensure that there is sufficient magnetic force to actuate the steps. This may take some finesse.

Note: If the step is actuating backwards you will need to reset the steps using the on/ off switch that is connected to the module near the battery. This will allow you to sync the steps with the doors.

16. Once everything is functioning properly reinstall all trim pieces and repeat the process on the passenger side.

Enjoy Your New DV8 Steps!!