2008-2009 DODGE CHALLENGER SRT8 INSTALLATION

NOWEEDS.NET
EXHAUST DIVERTER SYSTEMS

THANK YOU FOR PURCHASING THE NOWEEDS EXHAUST DIVERTER SYSTEM. THIS PRODUCT WAS DESIGNED TO BE EASY TO INSTALL AND JUST AS EASY TO OPERATE. PLEASE READ INSTRUCTIONS FULLY IN ADVANCE AND CALL US WITH ANY QUESTIONS BEFORE YOU INSTALL THIS PRODUCT. 605.830.1146 WE LOVE FEEDBACK FROM YOU SO SHOOT US A COMMENT, PICTURE, OR VIDEO TO INFO@NOWEEDS.NET THANKS AGAIN. PATENT #6,584,767

- INCLUDED IN KIT -

2EA DIVERTER VALVE ASSEMBLIES
1EA DAKOTA DIGITAL 3100 CONTROLLER W/SWITCH
1EA HARDWARE PACK W/HARNESS SWITCH PLATE
2EA BAND CLAMPS FOR BUTT JOINT
1EA VELCRO - ZIP TIES PACK
1EA 2" MASKING TAPE FOR CUTTING EDGE

1 **Remove the drivers seat.** Slide the drivers seat all the way forward, then using a 6pt socket, remove the 2 bolts located on the back of the rails which go into the floor pan. *Fig 1* Slide the entire seat assembly backwards and remove the 2 bolts from the front of the rails. Then tip the seat backwards and unplug the seat wiring from the 2 harnesses. Lay out a blanket on the floor and lift the seat out and lay it on its back.

2 **Drill hole for wiring harness.** Drill a 3/8" diameter hole in the floor under the drivers seat (front left corner) carpet in the position shown. Fig 2 This will position the wiring coming from the diverters at the end of the sub frame Fig3 Insert supplied grommet.

Fig 1

Fig 2

Fig 3

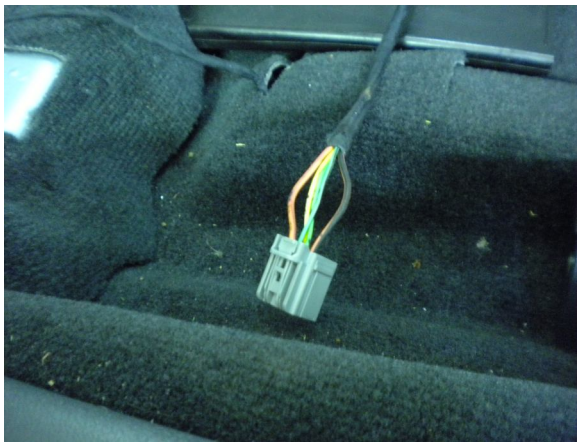


Fig 4

3 **Wire up the controller and install the seat mounted switch.** Using the supplied 3m clamp over connectors clip onto the orange/red wire on the seat harness and use a pliers to crimp it shut. Fig 4 Do the same to one of the black wires coming off of the ground bolt right next to where you drilled the hole. See Fig 2 again. Push the connectors on the controller power feed harness onto these 2 3m connectors. Red to orange and black to black.

Fig 5

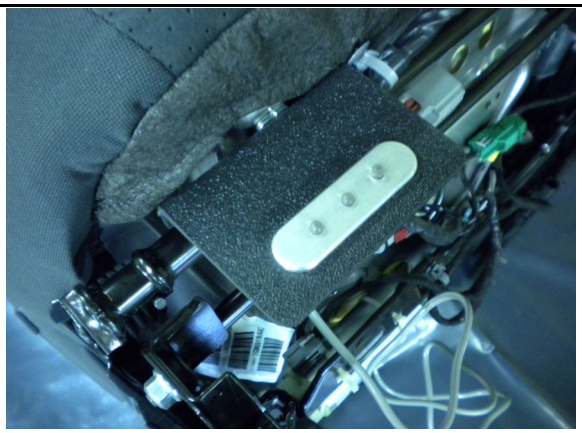
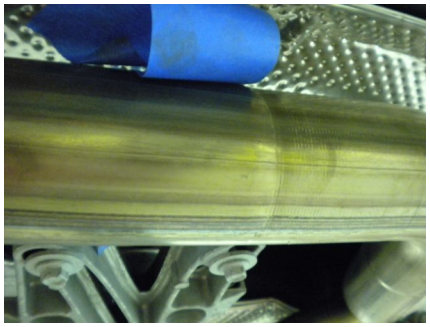


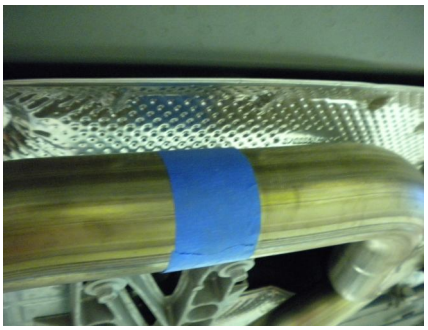
Fig 6

Now on the drivers seat on the right hand side (as you are sitting on the seat) you can remove the bolt shown in Fig. 5 which will allow you to install the switch plate. Install plate and re-insert bolt. Be sure to do this before installing the billet switch or you won't be able to re-insert the bolt. Now you can install the Billet switch into the switch plate and tighten down. Fig 6.



← front of car

Fig 7



← front of car

Fig 8

front of car →

Fig 9

6 **Cutting the factory pipes.** Its time to lift the car. Either on jack stands or preferably use a lift. Please be careful and use common sense when doing this! Now you can mark the factory pipes for cutting. Using the supplied tape mark the pipes by wrapping the tape around the pipe. You will notice a specific bend line on the factory pipes shown in Fig 7 & 8 This line is about centered on the transmission cross member. Put the REAR edge of the tape on this line and when you cut, cut the tape on the REAR edge. Fig 9 Do this for both sides and loosen clamps on pipes up in the tunnel and remove factor "s" pipes.

7 **Install heat shield.** On the passenger side you will notice a heat shield over the fuel lines. If you pull down on the back of it a nail type rivet will release. Fig. 10 Insert front of supplied heat shield up over the rivet as you pull existing shield down and then push the rivet back into place. Fig. 11 At the rear- insert supplied rivet into center of fuel rail bracket. Push up into place Fig. 12

Fig 10

Fig 11

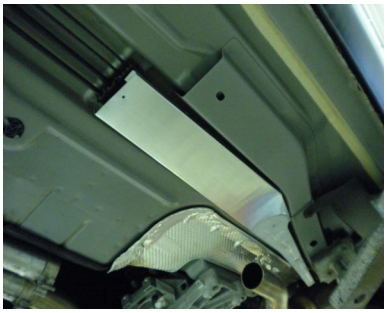


Fig 12

8 **Install Diverters** Slide supplied Clamps onto the existing pipes at the front end of the car. Now take the diverters and push them into the rear pipes up into the tunnel. Fig.13 You can then rotate the diverters up into place and slide the clamp over the joint and tighten all 4 clamps down. Fig.14.

Fig.13

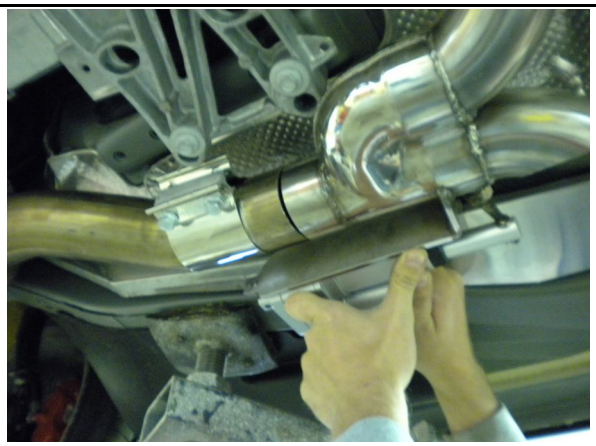


Fig.14

9 **Install wiring harness.** Now you are ready to run some wires. Take the 5 wires from the supplied harness and run the pinned ends through the hole in the drivers side frame rail and push them out the back of the frame rail. Fig.15 These will be 2 heavier 18 gauge Black and Red wires as well as 3 lighter 22 gauge wires. You may need to use a piece of stiff wire taped to the harness to guide the wires through the frame rail. Then insert the wires into the grommet from the bottom side. Fig.16 Feed about a foot of wire up into the car. Now you can connect the actuators to the connectors (3 connections) and use supplied wire ties to tie the loose wires together to any nearby harness or cross member to keep wires from touching exhaust pipes or driveshaft. Now tuck the wires up behind the heat shields on both drivers and passenger sides by removing the front nut that holds it on. Fig.15 & 17 You will also need to wrap the supplied wire loom cover over the wiring harness where it enters the frame rail to prevent wires from rubbing the rough edges. Fig. 15 &18 Take your time and make sure this is done correctly. Reinstall heat shield nuts and then you can set the car back down on the ground.

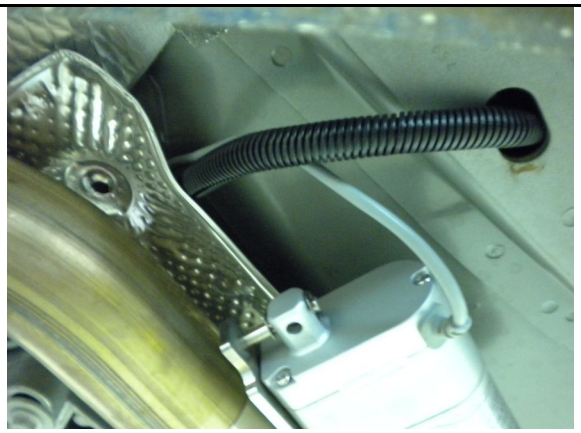


Fig 15

Fig 16

Fig 17

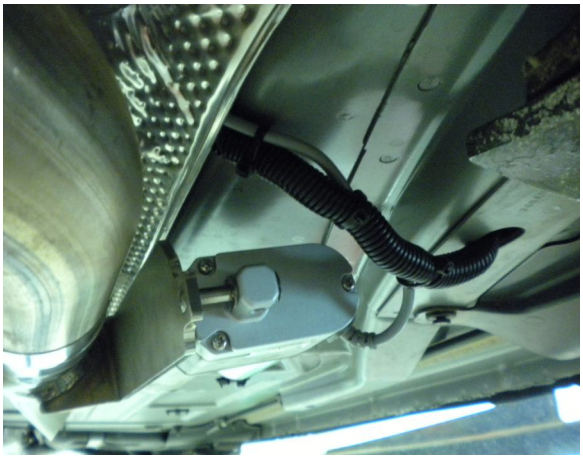


Fig 18

10 **Install wires into connectors.** Thread the wire under carpet and bring it out next to the seating wiring harness. Pin the connectors at the controller by inserting pins as shown (into supplied connectors) and pushing in on wires until you hear a "click". Insert pins with the crimp tabs up or towards the lock tab on the connectors as shown. Fig 19 Fig 20. Please verify connections and double check as pins are very hard to remove, so you've only got one shot. The 2 pin housing is the motor power which are the heavier 18 gauge black and red wires. Fig 21. The 4 pin housing is the motor position sensor which are lighter 22 gauge red black and green wires. Fig 22 Fig 23. Plug these 2 connectors as well as the power feed connector into the control box. Using the supplied Velcro mount the controller to the plastic panel shown in figure 24.

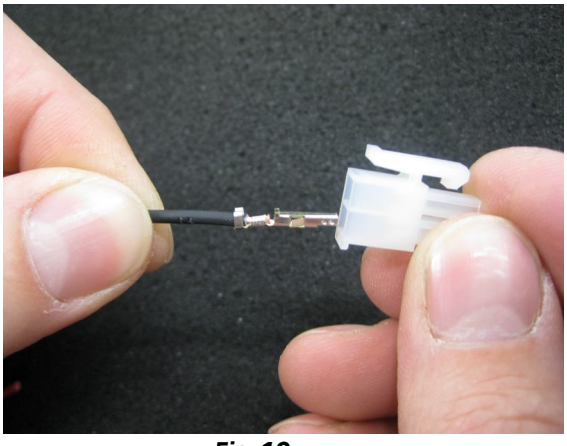


Fig 19

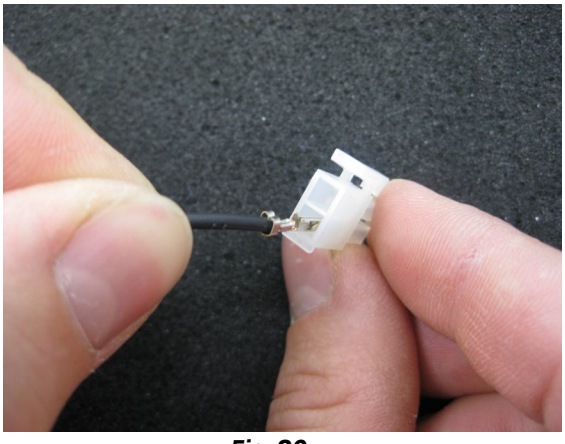


Fig 20

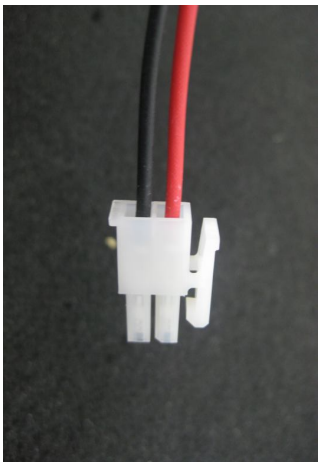


Fig 21

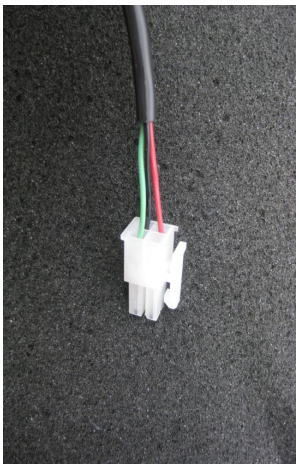


Fig 22

Fig 23

Pin 1 **BLACK** - Pin 2 **RED**

Pin 1 **GREEN** - Pin 2 **BLACK** - Pin 3 blank - Pin 4 **RED**

Fig 24

11 **Re-install seat.** Set the seat back into the car and tip it back so you can re-connect the seat harnesses. Plug the diverter switch wire into the controller.

12 **Finish up install.** Now you can slide the seat back into position and re-install the bolts and tighten them down. Look under the seat and be sure there is clearance for the controller and that no wires are hanging up, getting pinched, or stretched in any way. Run seat back and forth several times to verify this. Fix any obstructions you find and that is it! - you are done.

13 **Operation.** The switch contains 3 LED pushbuttons with the outside two being full open and full close with a single touch. These are factory set and cannot be changed. The center button though, can be user defined. To program this button, stop the diverter at the desired position by pushing any of the three buttons while the actuators are in motion. Then push and hold the center button for 4 seconds to program this position. This is useful if you find that the interior noise of full open is too much for a long trip but closed is too quiet as well. Remember, the actuators can always be stopped in any position by touching any button while they are in motion, and each position change only requires a single touch. There is no need to hold the buttons down.