

Installation of TPC DSC Module in a 981 Cayman

NOTE: Steps 1-3 of this procedure were used by permission of BigBlue
<http://www.caymanregister.org/showthread.php?t=33245>

This article and accompanying pictures describe the procedure removing the rear trunk carpet sections to access and replace the PASM unit with a TPC DSC control box. Total time for job ~60 minutes.

Tools required are:

- Plastic trim removal pry tools-available at most auto parts stores for under \$20.
- 10mm socket to remove the PASM module
- Cable-tie (4-6 inch) to attach the DSC module

All pictures show the disassembly of the passenger side trim however approach is identical on both sides. Reassembly, after viewing your clean engine, is just the reverse, and as my teachers used to say "proof is left to the student."

1. The disassembly starts with the rearmost side carpeting in the rear trunk (both sides of course). The picture below shows this piece being pulled from its top edge straight out toward the centerline of the car. It is attached with four plastic snaps along the top edge and along the top edge there is space for a handhold to exert the required force. The bottom edge is held in place with two small tabs which fit in matching holes in the bottom carpet.



Figure 1. Rear Side Carpet removal

2. Moving immediately forward from the removed side carpet, the plastic trim piece is removed next. The upper edge is captured by the rubber gasket which seals the rear lid. Carefully roll this seal back, exposing the trim edge and use two trim removal tools to pry the plastic trim out of its friction grip snaps. Once loose, the top of the trim piece can be rolled toward the centerline of the car and clear the aluminum cross member without marring it. Figure 2 illustrates this.



Figure 2. Side plastic trim removal

3. After both sides are removed, the rear aluminum cross trim, and filler cap covers are removed. The carpet with insulation backing covering the engine cover is captured at its back edge by this trim. Again, this piece is held in place with friction grip snaps. Use two trim removal tools and pry carefully along the front edge of the trim, lifting the aluminum trim and covers out of the car. Figure 3 below illustrates this.

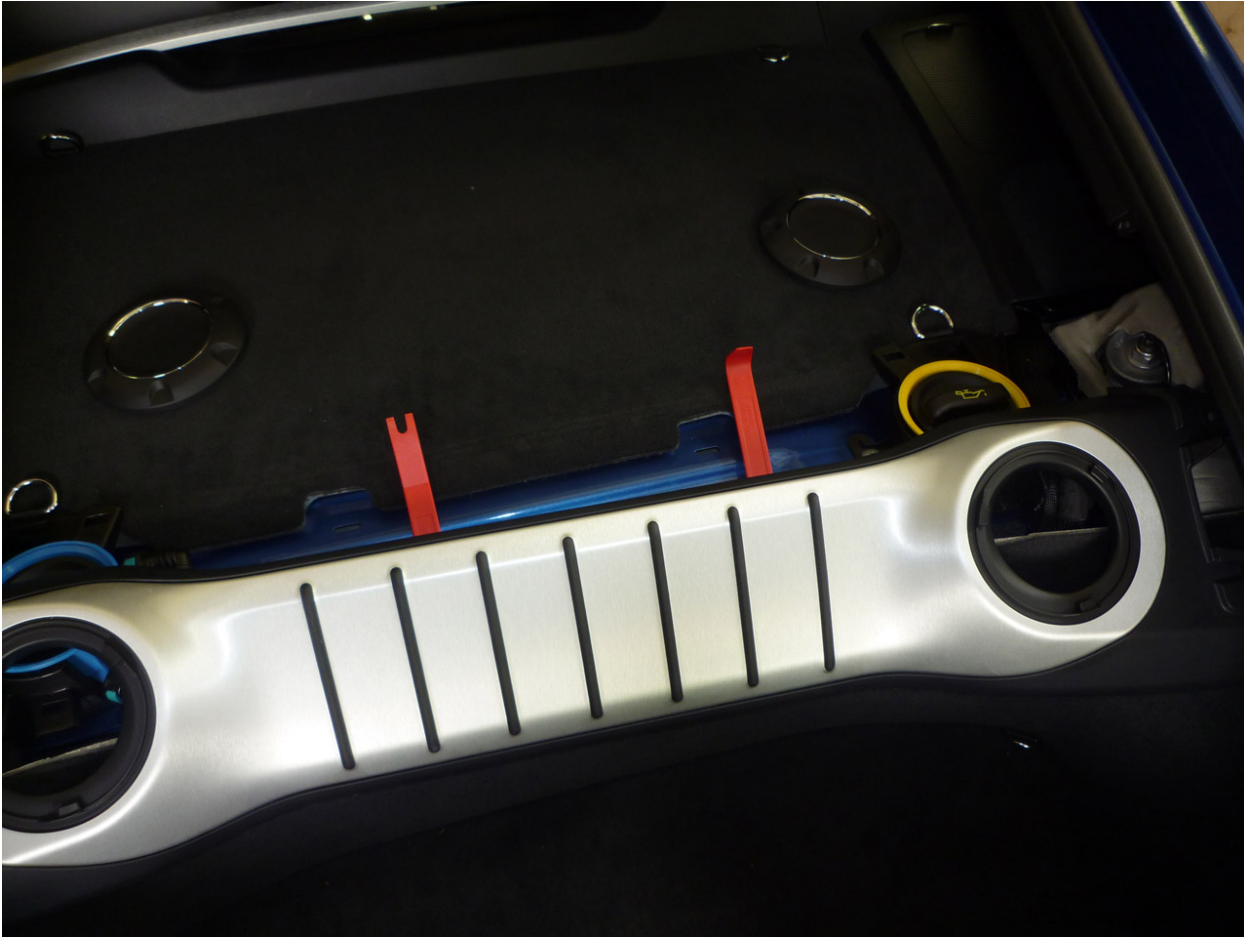


Figure 3. Center aluminum trim removal

4. Remove the carpeting section against the engine bay

Start on the right side and pull away the carpet section (Figure 4-1). It should fold away easily exposing the PASM module on the right side of the trunk area (figure 4-2).



Figure 4-1. Engine bay carpet section before removal



Figure 4-2. PASM module visible on the right-side of the trunk

5. Remove the 10mm nut holding the PASM module down

There are two (2) small clips holding the right-side of the module down. You will need to carefully work the module out of those clips. The clips can be kept with the OEM module, they will not work with the DCS unit, the plastic case is too thick for the clips. These clips also appear to be a one-time use item. I used a cable-tie to hold the right-side in place when mounting the DCS unit.

NOTE: Disconnect the battery, if you have not already done so.

Once you have the module loose, remove the connectors by sliding the black portions of the connectors to the outside of the module (left for left-side plug, right for right-side plug). The plugs will come out easily and the module can be removed.



Figure 5. Closeup of PASM module.

6. Install the DCS unit

I put the cable-tie on loosely before attaching the electrical connections. I recommend you connect the cable before fully mounting the unit. There is not a lot of clearance between the DCS unit that the control box below it. Attaching the connectors before mounting the unit will assure you have the space to fit it all back properly. Once everything is fitted back in place, tighten down the 10mm nut.



Figure 6-1. DSC module fit in place with cable-tie holding right-side.



Figure 6-2. DSC unit fully mounted in place

7. RECONNECT BATTERY and TEST THE UNIT BEFORE ASSEMBLING ALL COVERS

I started the car, verified that I got the correct blinking lights when activating the DCS unit. Verified no CEL, PASM failure, etc. and took the car out for a test drive to verify that everything worked fine.

8. Replace all covers, following instructions in reverse.

Take special care with the small side carpet pieces from step 1. There are several plastic guide-posts that need to fit into the right holes for everything to fit together smoothly. These posts are 2-piece. You might find a few small cone shaped pieces in the trunk, these are part of those guide posts (I forgot to take pix for reference).

CAUTION: Procedures showing maintenance or mechanical modifications to your vehicle may require advanced levels of mechanical proficiency. The author provides no warranty or guarantee as to the accuracy or completeness of the information. Your use of any information or materials contained in this DIY is entirely at your own risk.