

Here is part 1 of my tutorial for the conversion of my Shaker 1000 to the Kenwood DNX7100 Navigation / Head Unit. With the 7100, my new system will include the Kenwood I-pod Adapter (P.I.E. KNW/USB-AV), Sirius Satellite Radio Adapter (SIR-KEN1), USB 2.0 Desktop 4 Port Mini Hub, Lorex Waterproof Color Camera (SG4933R), and (4) replacement Pioneer TS-A6871R 6" by 8" 3-way Speakers. The factory subwoofers will stay for now, along with the factory amps. I'm using the Metra Wiring Harness (70-5521) to connect the head unit wiring harness to the factory wiring harness and the Metra Dash Mount Kit (99-5807) to mount the head unit to the dash.

The first component I installed was the back-up camera. I wanted to use the trunk keyhole location like others had done.... very clever idea by the way, and I think hawgman was the initiator.... thanks hawgman...

I want to try my hand here at doing a "TacoBill" write up....so here it goes....

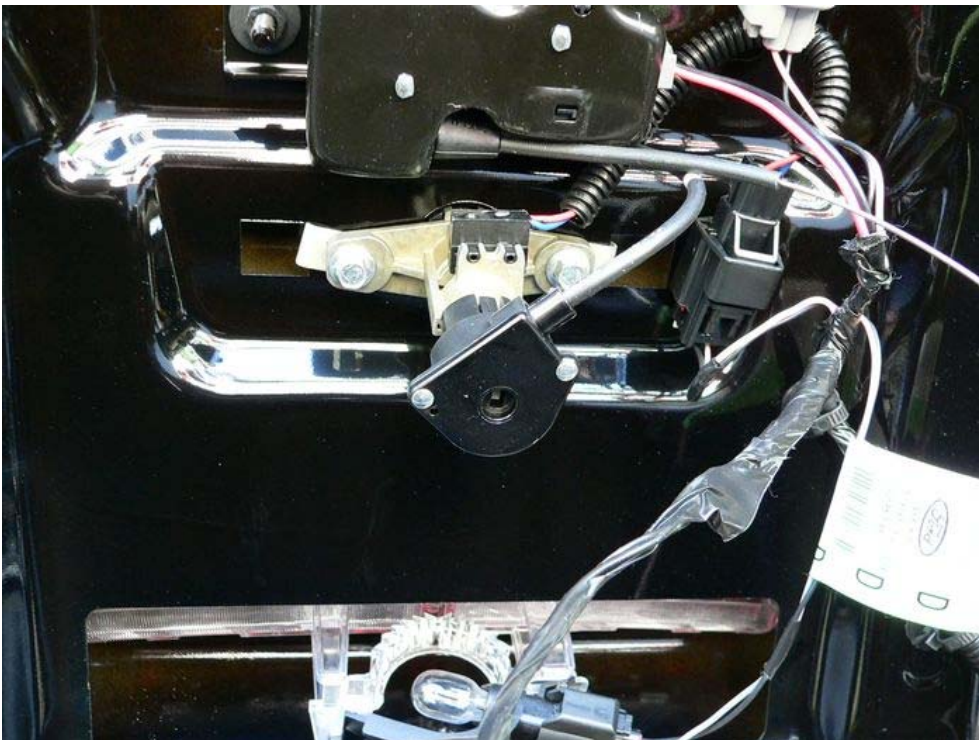
The first picture is the Lorex waterproof color camera SG4933R and all the assorted parts that come with the camera when you buy it...I hooked the camera up to my television once it arrived, to double check that it worked and to check out the video quality...looked good to me, and it was real easy to do with the supplied components that are in the package...



Here's the camera itself:



So into the trunk we go.... The trunk's deck lid latch trim cover simply pulls off and is held on with the OEM spring clips that are used throughout the car. Once removed, you'll have access to the trunk lock mechanism. Here's what it looks like with the cover removed.



The trunk lock is held in place with two 8mm machine screws and has one electrical connection that is unplugged, along with the end cap that snaps off the end. Here's the lock assembly removed.



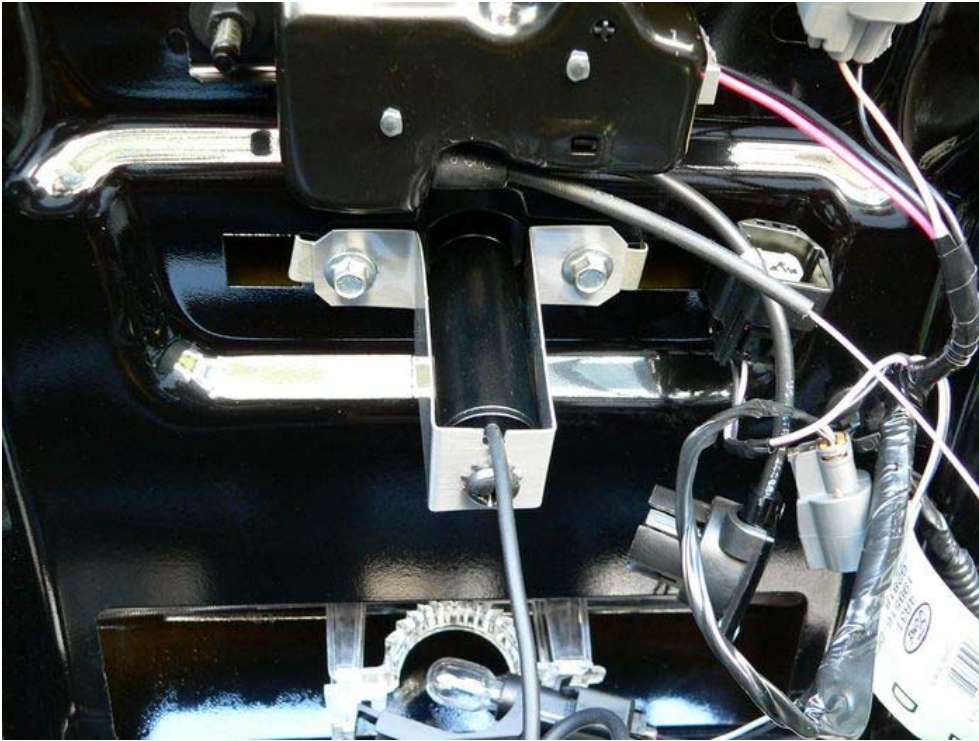
With the trunk lock removed, I held the camera up to the hole to see how well the two matched up. The camera's diameter is slightly larger than the hole diameter. I want to somehow seal the camera to the opening and keep the trunk waterproof at the same time. I really wasn't interested in using silicone as the sealant between the two, so I decided to fabricate a new faceplate for the camera itself. The 'faceplate' is actually an attached piece of aluminum with a 5/8" hole. The camera's 7/8" diameter now has a larger area to seal to. The faceplate also has another piece of aluminum with a hole the same 7/8" size as the camera's diameter. These two plates are held together with 3M automotive tape, PT1100.... this is the same tape that they use to hold on spoilers and side scoops. The tape extends to the edge of the smaller hole, so the excess exposed tape inside of the larger hole is used to seal against the edge of the camera. A second piece of tape is applied to the front of the faceplate with a 7/8" hole, the same size as the hole in the trunk. This tape is used to seal the new faceplate to the trunk.... This all probably sounds confusing, so here's a picture of the new faceplate and how it's attached to the camera..



There's a threaded hole on the end of the camera that's used to mount the camera to the swivel mount included with the camera. I fabricated a second bracket to utilize that threaded hole and also utilize the original mounting hardware that held the lock assembly in the trunk. This bracket was formed out of aluminum and attached to the camera with a small machine screw and tooth lock washer, tightened in that threaded hole on the end. Here's a picture with the bracket attached. Note the two pieces of aluminum and two pieces of 3M tape that make up the faceplate....



Now the install pictures showing the camera mounted inside the truck lid and attached as the lock assembly was. Note the picture shows the machine screw and tooth washer holding the camera onto the end of the bracket.



The following pictures show the camera from outside the trunk. The faceplate adhesive seals the camera to the sheet metal around the hole. The camera is securely held in place by the bracket inside the trunk...



Sorry in advance for breezing over any part of the install that is unclear or un-photographed. I give a ton of credit to Taco Bill for doing these types of documents like he does; these things take a lot of time to organize and write-up. If any parts of the install are unclear, fire away with your questions and I'll check back and answer them. Hopefully the document will aid those who are on the fence and question weather or not they can install a back up camera by themselves....if I can, you can....

hags1

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