

My Posts My Settings ▼ Search Log Out Welcome, LateAPXR FAQ Notifications

🛖 Forum 🎍 VW Model-Specific Forums 🎍 Golf VI R 🎍 DIY: Mirror puddle light installation

+ Reply to Thread Results 1 to 35 of 73 ▼ Page 1 of 3 1 2 3 ▶ Last ▶

07-08-2012 03:22 PM Reply #1

# Thread: DIY: Mirror puddle light installation Search Thread Rate This Thread Display



393

2012 Golf R

Posts:

Vehicles:



I'll start by thanking the contributors to the various Volkswagen forums. I would not have attempted this without their contributions. Most of the photos in this are my own, but I have borrowed from others and give credit and links to the posts of origin.

This thread was a big help http://forums.vwvortex.com/showthrea...t-MKVI-Mirrors Specifically .:R32 Driven, bobt2382 and Smoky\_Llama's posts! Thanks guys!

Disclaimer: Attempt at your own risk. There are several opportunities to screw up your car along the way. Pay a specialist to do it if you don't know what you're doing.

Tools I used:

VCDS for coding Dremel or drill Razor knife with new blades Torx bits of various sizes M8 triple square bit to remove the mirror to facilitate wiring Non-marring panel removal tools flashlight solder and gun shrink tubing Heat gun Wire strippers/cutters Sand paper

Parts:

Puddle lights from http://www.benzinfabrik.de/de/search/?q=8009



VW repair wire: 000979018E

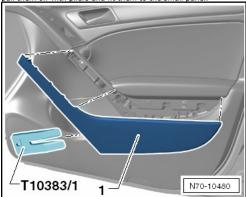


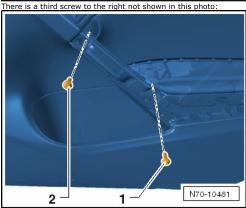
VW cloth tape: 000979950 Electrical wire (about four feet)

Start by taking off the interior door panel and disassembling the mirror housing:

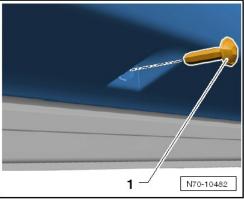
Photo credit to Cartman at http://vw-golfclub.ru/forum/showthread.php?t=17292

Make sure the metal clips came off with this small panel. Sometimes they detach and remain on the larger panel. It's not a big deal as you can pull them off with pliers and fit them to the small panel.

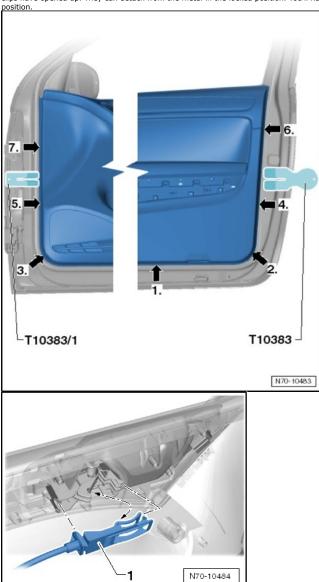




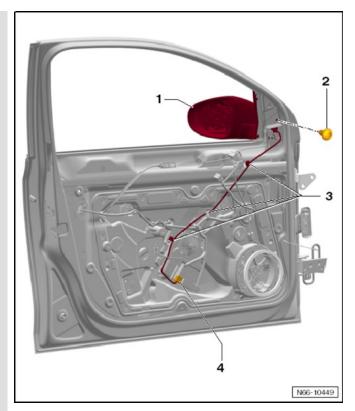
This screw is at the bottom center of the door panel:



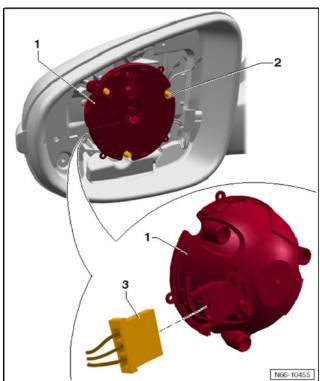
This is where the flashlight comes in handy. Pop the clips off in the numbered sequence. #1 is actually the screw you removed in the previous photo, not a clip. So, #2 is actually the first clip you need to pop. I laid on my back and shined the light through the gap to guide the trim removal tool under each clip. Once you get the bottom two off, you can widen the gap to see the next two. The clips on the hinge side of the door are the most difficult to see. Trust me, you can see all them while looking up from the floor. Once the panel is completely off, check to see that all off the clips have opened up. They can detach from the metal in the locked position. You'll have a hard time getting it back on with them in the locked position.



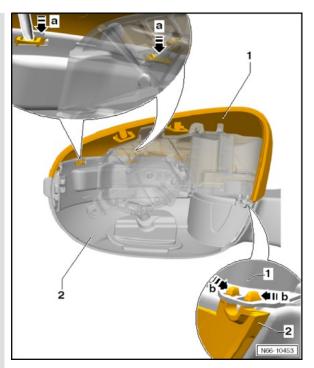
This is just a good photo of the wire run. You don't need to remove the bolt holding the mirror in place yet. That comes later.



SKIP THIS STEP. It's not necessary to remove the motor.



Continue:



Here are a few of my own photos. This was a scary moment for me but the mirrors popped out fairly easily. Make a note of how the wires connect to the mirror, I'm not sure if it matters.





Now is the time to remove the mirror housing. Start by removing the tweeter:



This came off with the tweeter housing. Just peel it out and stick it back in the hole.



Then use the triple square to remove the mirror bolt:



Once off, pull back the sound insulation to see how the factory wiring is routed.



#### Cutting the hole:

Score the factory line with a new razor blade before starting your Dremel/drill work. It will help with the finishing work. You don't have to go too deep. 🔐 Im right handed and kept the blade to the left of the factory cut. That way, if you slip it will only scratch the area being removed later.



Now drill out the inner portion. Leave a small buffer to clean up with the razor knife (about 1/8 to 1/4 inch). Start in the middle and work your way out. You can shave off the the remaining plastic in nice thin slices as you work your way to the edge. The scoring you did earlier will act as a natural safety guide for the blade. The blade will actually "find" the line and prevent you from cutting too much.



Finish the edge with the razor knife and sand paper. Wrap the sand paper around a small screwdriver to clean up the corners.



If all goes to plan the light should snap into place.

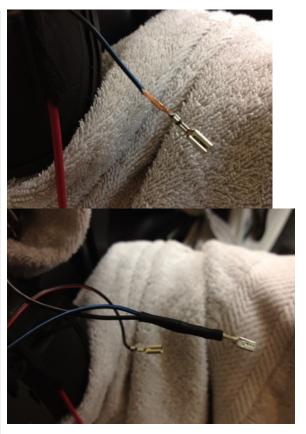


Wiring the light:

Ground wire first. Cut off the connector the light came with as close to the connector as possible and solder a 5" wire onto the gray wire. Cover with shrink tubing. This will connect to the blue and black mirror ground wire.



I carefully removed some of the insulation around the factory ground wire to solder to. Don't forget to slide the shrink tubing over the wire prior to soldering!



Running the 12V wire:

Cut a wire that is long enough to go from the factory door connector to the mirror cutout. Wrap the majority of it in cloth tape. Install it following the path of the factory wiring.



Remove the 16-pin lower door connector and then seperate the inner housing to insert the repair wire into slot 10. I used a pointy thingy to fully seat the repair wire into the slot.



Once the repair wire is in place, route it along the factory harness to meet up with the wire you ran from the mirror. Obviously you need to cut the factory repair wire in half. You will use the other half on the other door. Solder the two together and cover in shrink tubing.



Now solder the power line to the light and cover in shrink tubing. Fill the light hole with silicon. You can stuff the shrink tubing into the light housing first, which I should have done in the first place.



### Coding:

Credit to: www.my-gti.com/2084/adding-door-puddle-lights-to-the-Volkswagen-golf-and-jetta

Mine looked a little different but adding 2 to the existing code will activate the puddle lights. This has to be done to both doors.

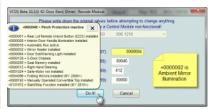
Open the door controller (42 for driver's door and 52 for passenger and select "coding - 07".



Make a note of the coding value. Write it down!



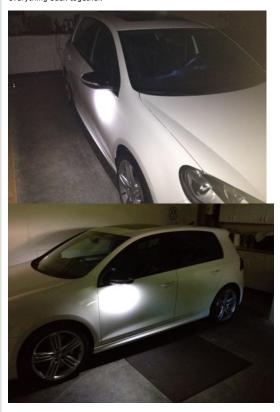
Add 2 to the coding value and select "Do It!" to save. (To save questions later, you literally change the number to equal the existing code +2)



Select "Close Controller" to exit.



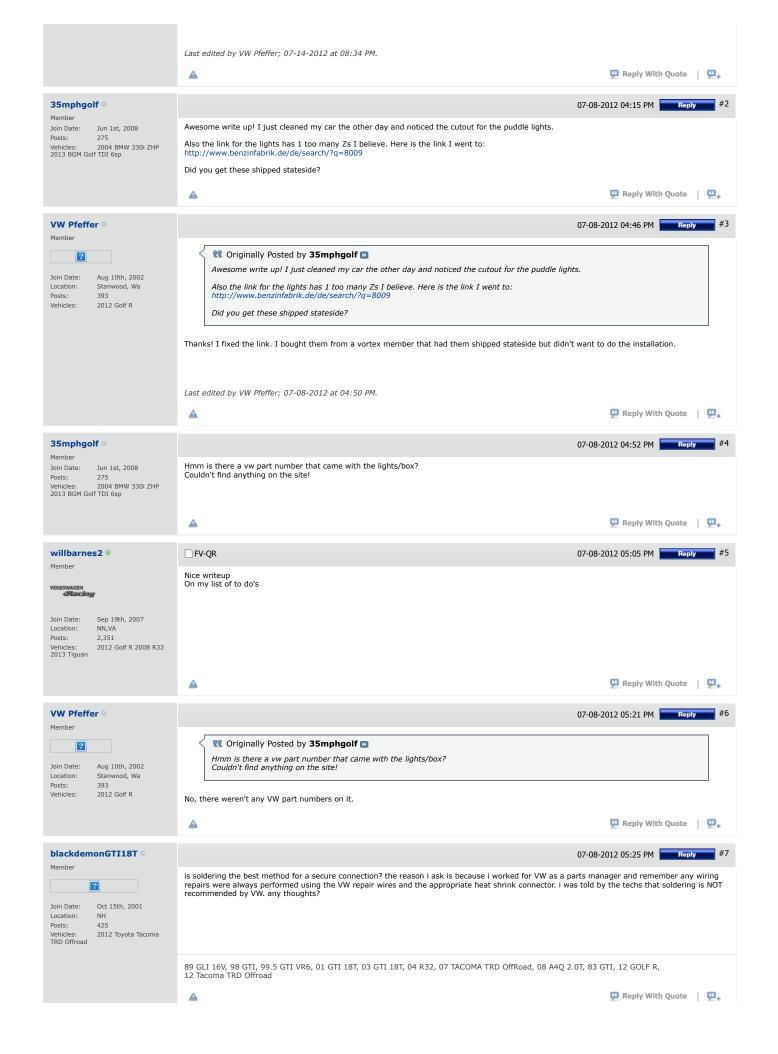
That should do it. Check the lights to see if they work. They will come on when you unlock the car and shut off when you lock it. If they work, bolt everything back together.

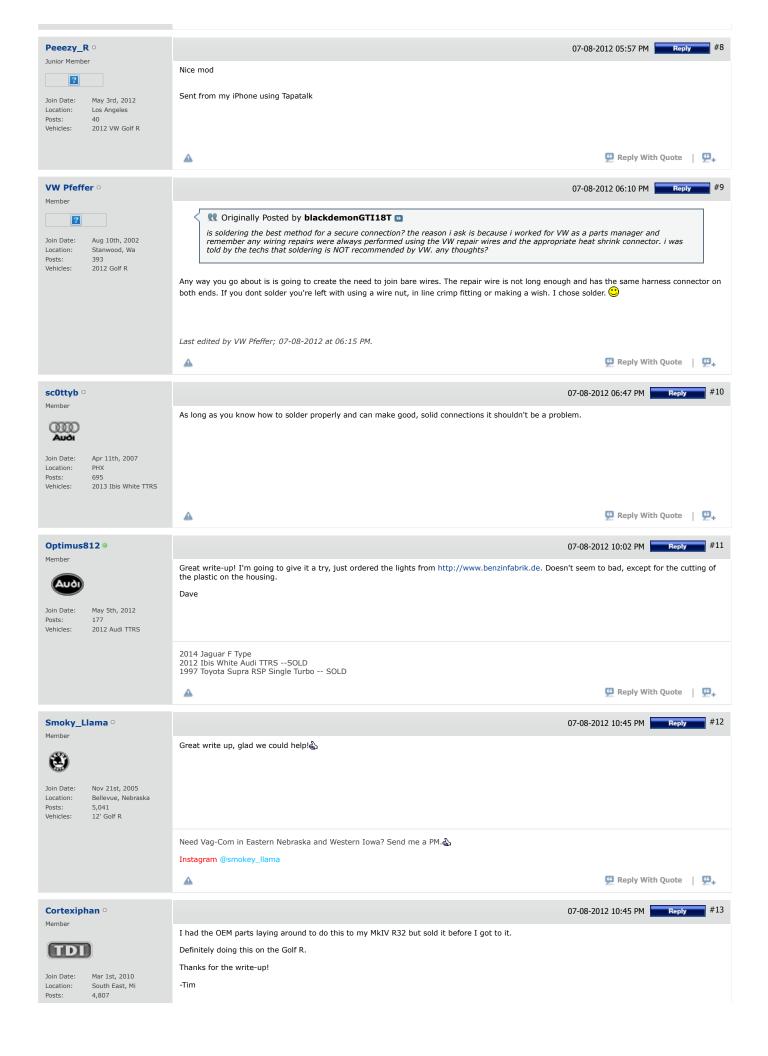


Bonus round: If your going to do this install, you should seriously consider adding door warning lights at the same time. Bold-Sport offers a complete OEM kit and installation instructions. You'll want to add the optional 3D LED light upgrade at the same time because the OEM bulbs are too dim to be useful. The LED upgrade is a drop down menu on the door warning light order page. You'll notice that the puddle lights and door warning lights plug into different door wiring harnesses and require VAG-COM coding. http://www.bold-sport.com/store/inde...&product\_id=61

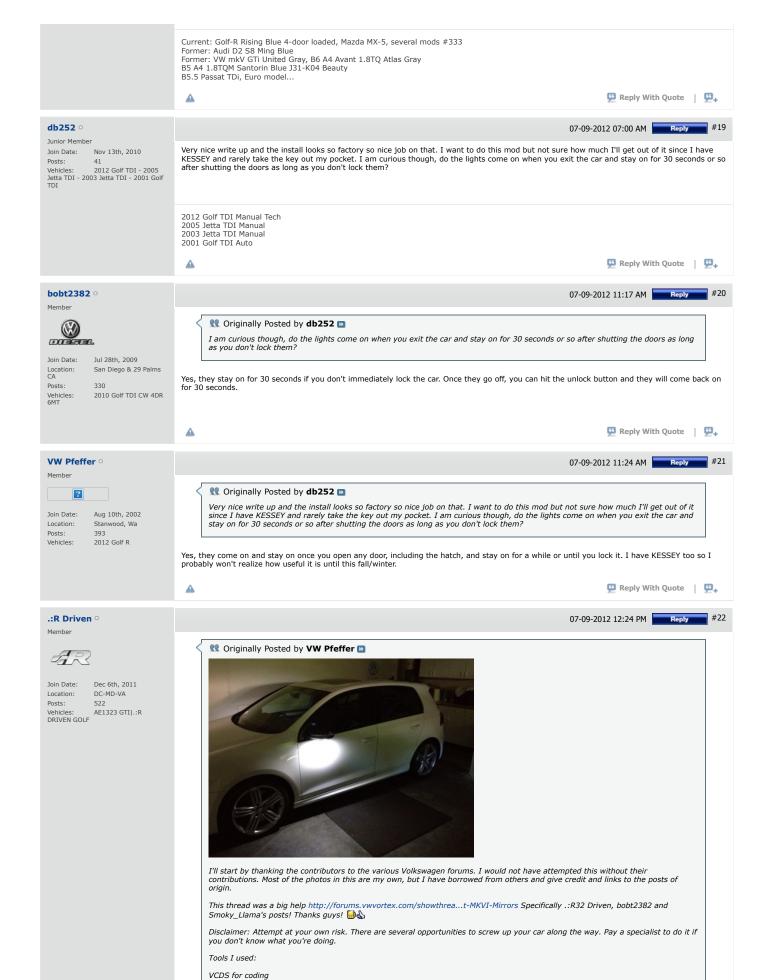


I installed them on all four doors. The rear door panels come off in a similar way as the front panels.









Dremel or drill

Razor knife with new blades

Torx bits of various sizes
M8 triple square bit to remove the mirror to facilitate wiring
Non-marring panel removal tools
flashlight
solder and gun
shrink tubing
Heat gun
Wire strippers/cutters
Sand paper

Parts:



VW repair wire: 000979018E

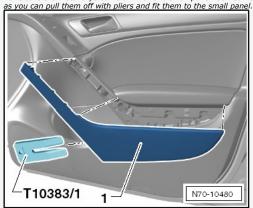


VW cloth tape: 000979950 Electrical wire (about four feet)

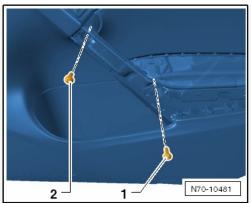
Start by taking off the interior door panel and disassembling the mirror housing:

Photo credit to Cartman at http://vw-golfclub.ru/forum/showthread.php?t=17292

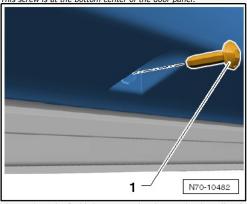
Make sure the metal clips came off with this small panel. Sometimes they detach and remain on the larger panel. It's not a big deal



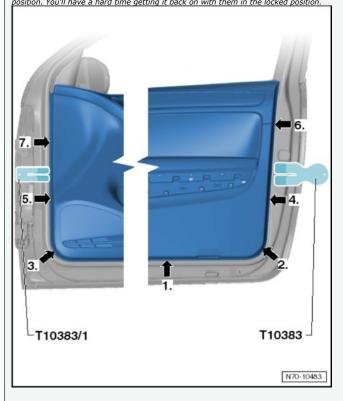
There is a third screw to the right not shown in this photo:

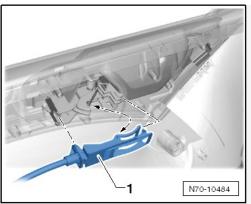


This screw is at the bottom center of the door panel:

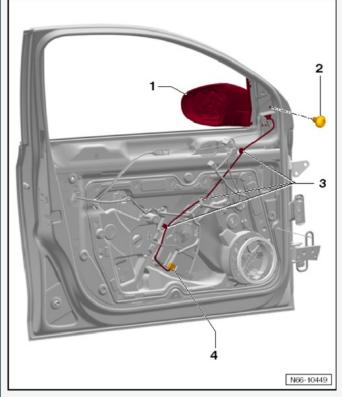


This is where the flashlight comes in handy. Pop the clips off in the numbered sequence. #1 is actually the screw you removed in the previous photo, not a clip. So, #2 is actually the first clip you need to pop. I laid on my back and shined the light through the gap to guide the trim removal tool under each clip. Once you get the bottom two off, you can widen the gap to see the next two. The clips on the hinge side of the door are the most difficult to see. Trust me, you can see all them while looking up from the floor. Once the panel is completely off, check to see that all off the clips have opened up. They can detach from the metal in the locked position. You'll have a hard time getting it back on with them in the locked position.

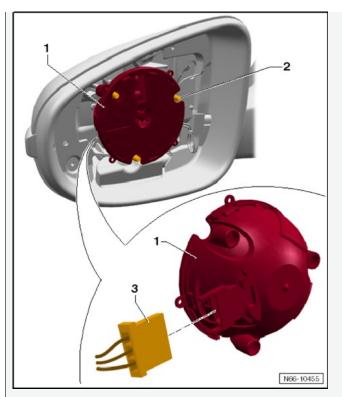




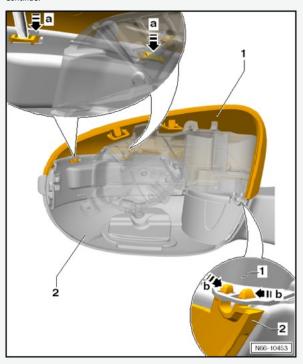
This is just a good photo of the wire run. You don't need to remove the bolt holding the mirror in place yet. That comes later.



SKIP THIS STEP. It's not necessary to remove the motor.



Continue:



Here are a few of my own photos. This was a scary moment for me but the mirrors popped out fairly easily. Make a note of how the wires connect to the mirror, I'm not sure if it matters.

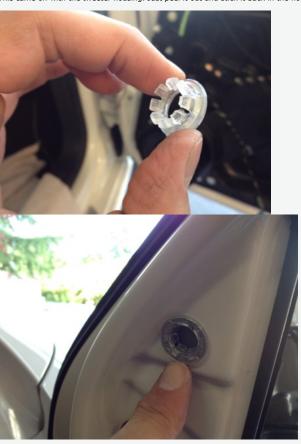


Now is the time to remove the mirror housing. Start by removing the tweeter:





This came off with the tweeter housing. Just peel it out and stick it back in the hole.  $\ensuremath{\mathfrak{G}}$ 



Then use the triple square to remove the mirror bolt:



Once off, pull back the sound insulation to see how the factory wiring is routed.



# Cutting the hole:

Score the factory line with a new razor blade before starting your Dremel/drill work. It will help with the finishing work. You don't have to go too deep. 😉 Im right handed and kept the blade to the left of the factory cut. That way, if you slip it will only scratch the area being removed later.



Now drill out the inner portion. Leave a small buffer to clean up with the razor knife (about 1/8 to 1/4 inch). Start in the middle and work your way out. You can shave off the the remaining plastic in nice thin slices as you work your way to the edge. The scoring you did earlier will act as a natural safety guide for the blade. The blade will actually "find" the line and prevent you from cutting too much.



Finish the edge with the razor knife and sand paper. Wrap the sand paper around a small screwdriver to clean up the corners.



If all goes to plan the light should snap into place.



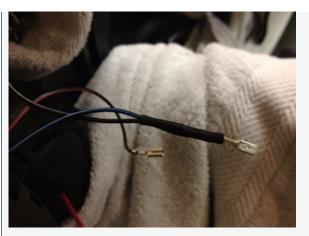
Wiring the light:

Ground wire first. Cut off the connector the light came with as close to the connector as possible and solder a 5" wire onto the gray wire. Cover with shrink tubing. This will connect to the blue and black mirror ground wire.



 $I\ carefully\ removed\ some\ of\ the\ insulation\ around\ the\ factory\ ground\ wire\ to\ solder\ to.\ Don't\ forget\ to\ slide\ the\ shrink\ tubing\ over\ the\ wire\ prior\ to\ soldering!$ 



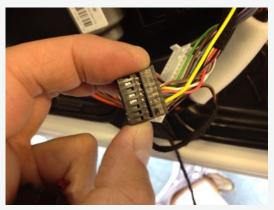


Running the 12V wire:

Cut a wire that is long enough to go from the factory door connector to the mirror cutout. Wrap the majority of it in cloth tape. Install it following the path of the factory wiring.



Remove the 16-pin lower door connector and then seperate the inner housing to insert the repair wire into slot 10. I used a pointy thingy to fully seat the repair wire into the slot.



Once the repair wire is in place, route it along the factory harness to meet up with the wire you ran from the mirror. Obviously you need to cut the factory repair wire in half. You will use the other half on the other door. Solder the two together and cover in shrink tubing.



Now solder the power line to the light and cover in shrink tubing. Fill the light hole with silicon. You can stuff the shrink tubing into the light housing first, which I should have done in the first place.



### Coding:

Credit to: www.my-gti.com/2084/adding-door-puddle-lights-to-the-Volkswagen-golf-and-jetta

Mine looked a little different but adding 2 to the existing code will activate the puddle lights. This has to be done to both doors.

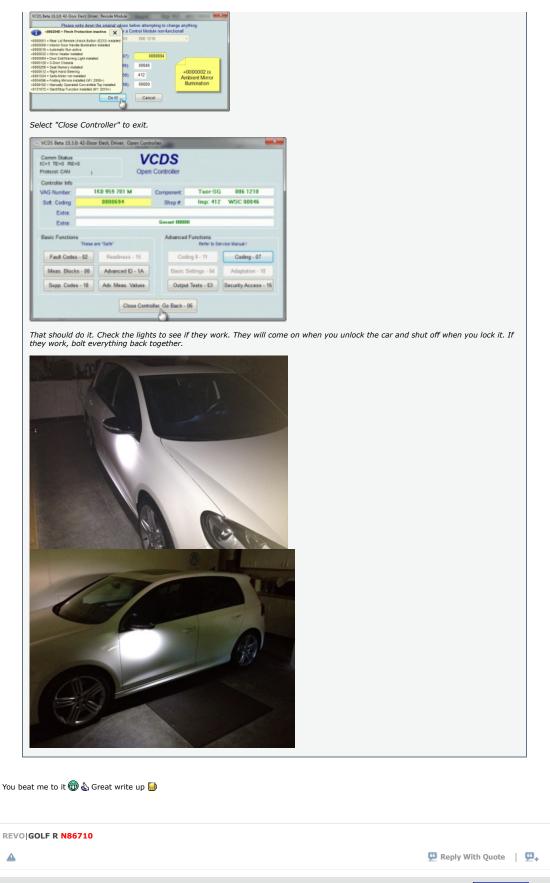
Open the door controller (42 for driver's door and 52 for passenger and select "coding - 07".



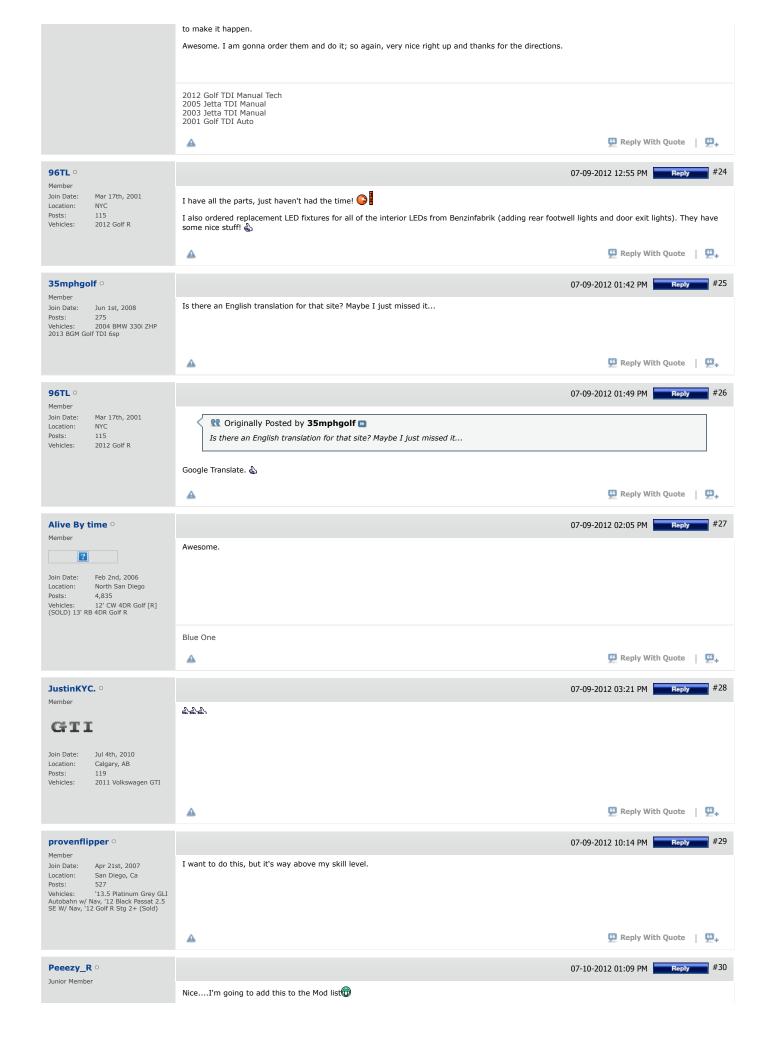
Make a note of the coding value. Write it down!

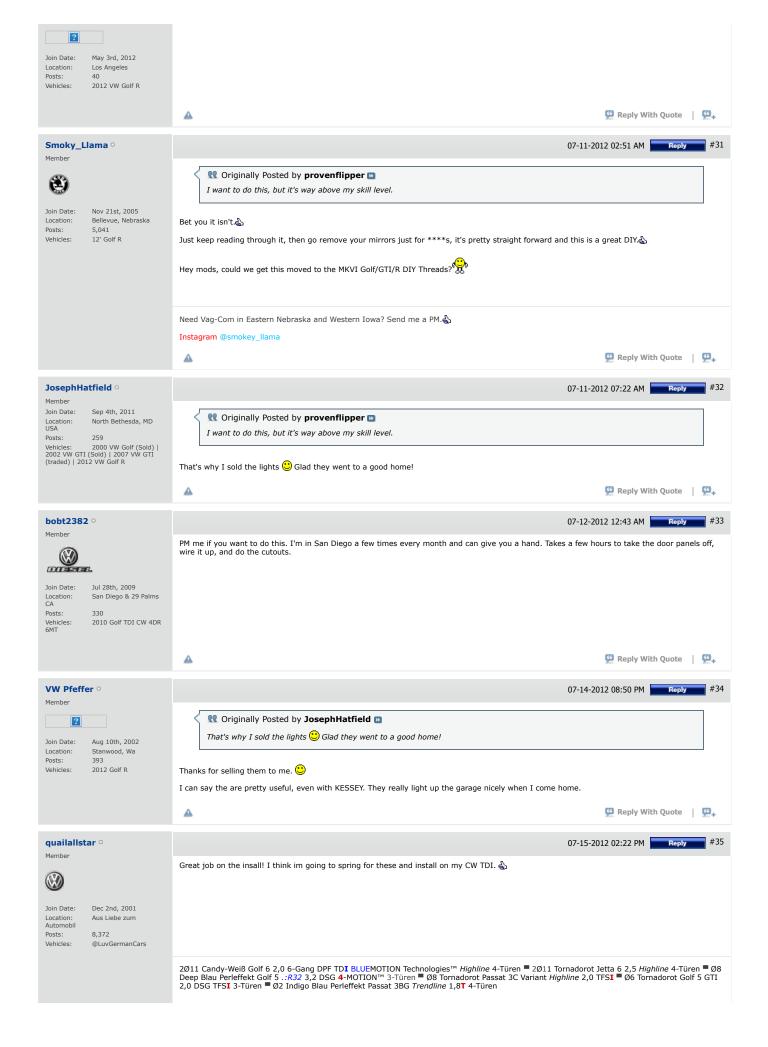


Add 2 to the coding value and select "Do It!" to save. (To save questions later, you literally change the number to equal the existing code +2)















Quick Navigation ▼Golf VI R Top

# « Previous Thread | Next Thread »

♠ Forum 🎍 VW Model-Specific Forums 🍨 Golf VI R 🍨 DIY: Mirror puddle light installation

Posting Permissions You may post new threads
You may post replies
You may not post attachments
You may edit your posts

BB code is On Smilies are On [IMG] code is On [VIDEO] code is On HTML code is On Forum Rules

**(** †)

Contact Us Archive Privacy Statement Terms of Service Top

All times are GMT -4. The time now is 04:40 PM.

Powered by **vBulletin**® Version 4.2.1 Copyright © 2014 vBulletin Solutions, Inc. All rights reserved.

Digital Point modules: Sphinx-based search