



It is not a complicated job, just as other people have said - very time consuming; take your time, I orderly arranged and cleaned everything I took off of the car; don't sweat on the wiring connectors - although there are lots of them, they are so shaped you cannot mismatch them.

I actually put the new heater core while inside the car,

because I didn't want to disconnect if possible the moving cables from the back of the HVAC controls.

I bought a roll of window insulation foam, adhesive, and cleaned all vents and the flaps inside the heater box, then put new insulation in. Old one was flaking, badlt at that, and some of it flew out of the vents when I put everything together.

<u>VWbay</u>

Es ist wirklich eine Liebe - hassen Sie Verhältnis!

izzo Member Clearing the work area 🗻

<u>« »</u> 4:19 AM 2-15-2007 Reply



Online

Member Since 3-18-2004 5473 posts

W Va 94 B3 GLX, 97 GTI, 84 Rabbit GTI, 06 Citroen C5 HDI, 00 Audi A4 1.8TQ, 93 Audi B3 TDI

F 🖹 🗊



I started by removing all accessories from the dash shell:

Pry out the covers for the tweeters, and remove them. Headlight switch - pull straight out, CEL/ABS/e-brake light - pull, even easier if you remove the vent above them first - and gain space to push them out from behind. That leftmost vent is held by three screws. It is easier to use a magnetic screwdriver if possible.

Then I removed the rear windows switch, foglights and defrost switches. Might have another one instead of a blank if you got leather. Pry out the cover on the HVAC controls, and undo the four screws that are holding the knob assembly. Unhook and unclip the light above the ashtray.

Remove your stereo. Remove the light from the glovebox /B4 owners jealous?/

Some people might not have to do it, but I took out the center console as well, two screws where the feet are, and two nuts below the shift boot/gear selector plate. Take out the shift knob/boot first. Be careful because the cigarette lighter is wired, as well as there are some electronics just below the ashtray on the back; I didn't unplug them, but rather loosened the plate these are attached to and laid it down, like I did with the HVAC controls. Unclip the white and black connectors from the base of the center console.



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from below.

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I took my MOMO steering wheel out, which required a huge-a\$\$ socket. The plastic surround over the stalks is held by two screws accessed

The cluster surround is also held by two screws, tilt down the steering

column for easier access - these are also accessed from below. Take them out,

After removing them, tilt the cluster and unclip the big connector on the back.

Another two screws holding the actual cluster, easy to see - left and right.

I also removed the wiper/turn stalks. Three very long tiny bolts, and lots of

izzo Member 🗎 Steering wheel area <u>»</u>

and pull the plastic towards you.

Take the cluster out carefuly.

flat thin connectors.

<u>«</u> » 4:20 AM 2-15-2007 Reply



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Removing the dash shell and knee bars/cubbies >>>

<u>« »</u> 4:21 AM 2-15-2007 Reply



The dash shell is held by two screws EACH side, open the doors wide to see them. They are under round plastic caps. Then there are two screws that hold the bottom of the center attached to two 'horns' in front of the shifter

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mechanism.

If you have the US-spec OEM knee bars, pop the plastic covers on each side, and undo two screws each side again. There is another plastic cover at the driver's right leg position, with an allen key bolt that holds the two pieces together. Open doors wide and slide the knee bars right out.

If you have the Canadian-spec knee bars with storage areas, undo all screws that hold them. I am using those and it's a lot of screws - like four or five each.

Then the glovebox. Three screws when you open the door, and mine had another one just below the door, right above where the knee bar was. Pull straight out. The blower motor box is exposed now. Also, you need to take the glovebox out first in order to be able to remove the passenger side vent.

No really easy way to do it, but I wiggled and pried and cursed till all the vents came out. Both sides, plus the ones in the center - dusty, I cleaned them with an old small brush.

Now have a look around and throw out anything I missed, and you probably too; then proceed to unhooking whatever wiring there is. There are SEVERAL plastic clips on the bottom of the dash shell, behind the cluster, behind the central vents, and so on. Unclip all wiring loom that goes through them.



Finally, the dash shell with a lot of sweat might come out. Lift a little bit, and pull straight towards the back. You will figure soon enough if you forgot anyhing and if you will have more tormenting time finding what it is.

Sort all of the dangling wiring and put it aside, out of your merry way.

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The Queen is dead, long live the Queen!!! >>

« » 4:21 AM 2-15-2007 Reply



Member Since

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3-18-2004

5473 posts

Audi B3 TDI

🗭 🖻 🖚

Now you should be looking at the vent piping. The two plastic parts that lead to passenger/driver side vents are easy enoughthey slide just out. The square funnel that goes up is held by two screws, undo them if you so desire, I did. Now there is a big plastic thin thing, held by a screw at it's bottom and two metal clips on the left'right; those slide just out. Pull without breaking no plastic. The bottom part below the heater core box is a bit tricky, a few screws, don't remember the exact count - pull out too. This is the part that routes air to the rear, under the front seats.

After you remove all plastic and other crap attached to the heater box, you should be looking at something like this pile of whatnot:



Now, the heater core box is attached strongly to the blower motor housing with several clips. I had one on the bottom, one or two on the back of it, one on top, two at the front. Do the math. I removed ALL except the ones on the back. Don't lose them. They will just pop /hopefuly/ when you start severely wiggling the heater box around.

Pop the hood if you haven't already, and have a look below the in/out leads of the heater core, assuming you already removed the coolant hoses or even had a bypass.

The heater core box is held to the firewall by two nuts/bolts. There is a big round plastic cover blow the heater core hoses, unscrew, and use a deep socket to remove the nut. That's the top one.

The bottom one had no plastic cap, but was underneath a flap on the heat insulation.

Pull lightly that flap and undo that nut as well. Some people advice to losen the blower motor box nuts as well - I did not. In case you feel eager to do it, these are around where the A/C lines go into the firewall.

On the DIY on the Corrado website is mentioned a bolt/nut in the raintray; that's for a C though, my heater box was held ONLY by these two nuts I mentioned.

Back inside the car, it took my great mind about two days to figure whay the heater core case won't budge away from the blower motor box; I started by pushing it front and back, which it did because the nuts on the firewall were removed, then I went to kicking, and cursing, and sweating, and nada. At this point I decided to leave the battlefield to prevent myself from buying new interior.

Turned out the stupid thing was just like STUCK where the two boxes mate; finally I took the good old pry bar that I use when replacing the accessory belt, and simply pried the boxes apart. A loud "POP" and the heater box came lose.

I just pulled the box towards me, and noticed the old core didn't even have screws to fasten it up. At this point of time I wiped all leaked coolant that was inside, and that evaporates and fogs wour windows from the inside, if it does not spill on your legs. I used a clean rag and rubbing alcohol to clean all surfaces, and clean all the foam that covers the flaps inside the heater box. Then I used the window insulation adhesive foam to replace all the old foam, and vacuumed the inside of the box to prevent dirt and foam blowing into my face when I first start the heat afterwards.

Some people reported that the new heater core is covered in some sort of grease,

or whatever other poison to keep it from rust or I don't know what other disease. When installed, that evaporates and smells pretty badly so what you can do is to

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izzo Membe



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 \blacksquare You're good to go ahead and FINALLY replace the sucker of a heater! \ge

give the new heater core a thorough but careful bath.

<u>« »</u> 4:22 AM 2-15-2007

Reply

E/

<u>«</u> » 4:23 AM 2-15-2007 Reply

Slide the nice shiny reason for your troubles down in the rectangular hole. Put two screws to hold it tight. You've went through so much for that glorious moment!

Wiggle the heater box back on place, mate it to the blower box, and make sure both bolts go through the holes on the firewall. Go under the hood and put the nuts on, just don't tighten them fully since you might have to wiggle the box a little bit more.

I had a hard time seating the bottom portion on top of the hole in the center tunnel part of the floorpan, the hole that leads hot air under the front seats. What I did is to lift the heater box UP as much as it allowed me and push forward.

Assuming you already removed the vacuum line between the in/out flanges WITHOUT breaking the small tiny plastic adapter, go ahead and replace it if you want, and attach back.

When the heater core box is AT LAST properly seated, you can go ahead and fasten the bolts on the firewall, and put the plastic cap on the top one. Start piling up all that plastic junk that you have on the backseat and laying around the car. Try to route the wires that control the flaps well, so the knobs will turn with ease; also you can lube those a little bit.

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 \blacksquare Putting the ductwork, dash and other plastic parts back on $\underline{\gg}$

izzo Member



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Before your try to put the dash shell back in, lower down the steering wheel column. The shell slides back on, again needs to be seated properly. There are these plastic clips inside of it that hold the wiring loom.

Next comes this alien-shaped piece /in the center of the photo/ that leads air to the center vents and the side vents pipes attach to. You cannot put it back on before the dash shell is seated, because it's on the dash shell in. I slid it in underneath the blower motor box by lifting the shell a little bit. Position it properly over the two bolts that stick from the heater core box, and slide the plastic tabs on. Then one screw on the bottom of it, not sure if there were more.

Now you can go ahead and put the four bolts - two on each side, ond the two that go for the two horns right in the middle in front of your shifter. Put the four plastic caps as well.

Then attach the two pipes to each side of the alien-shaped piece, and route any wiring around them.

I separated the actual moving part of the vents from the frames. Put the frame on the left side

first, and screwed it in. Pull the CEL light connector out, as well as the headlight switch connector.

Connect them and slide them into place. Now you can snap the moving grill into the vent frame.

Now comes the center piece around the radio and HVAC controls. Slide it into place, put all screws, pull the wiring through the holes, connect and seat the switches. Carefuly seat the HVAC control box and put the four screws that hold it into place. Connect the wires to the back of it.

Connect and install the light fibre over the ashtray, then snap the cover over the knobs.

Then you can put the two vents back. I used an old toothbrush to clean the dirt/dust between the grills. Put the metal sleeve /if any/ for your radio, and you can put the radio back in now or later, up to you.

Now I put the passenger side vent in and tightened the screws. Then comes the glovebox, whose right side overlaps the base of the vent - put in all screws, and attach the light.

Having that done, I proceeded to the cluster box. Slide it in, I have aftermarket gauge overlays,

did their wiring first, then the cluster connector; two screws each side.

Because I removed the turn/wiper stalks, I had to carefuly put them back in, match all wiring couplers,

and put the three long thin bolts. Then the two plastic pieces, top and bottom, these are held by two screws placed on the bottom part. Now you can go ahead and put the frame in front of the cluster, another two screws on the top part of it.

I don't remember what it was about the OEM steering wheel; but I had to attach the hub adapter for my MOMO Commando with the big nut, then position the steering wheel and tighten all of the allen headed small bolts. Connected the horn wires.

Two 4 1/2 inch tweeters on each side of the dash top, connect wires and because I have Pioneer

speakers, I put the screws to fasten them; then position the grills over them and push to clip them.

Now I had to slide the center console back into place, two plastic pieces above the ashtray help you do that -

they go into two holes just below the HVAC controls. Attach the plate that holds the elctronics to it. Connect the wiring to the ashtray. Snap the two OBD connectors to the where the shift boot plastic

base is. Those slide in/out with some effort. Two screws on each side, where the feet are. Another two

plastic nuts just behind the shifter mechanism. Be careful not to overtighten and strip them.

« » 4:23 AM 2-15-2007 Reply

If you feel comfortable, put the shift boot and the knob on. My MOMO knob is not like the OEM knob, it is held by three tiny bolts.

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MK3 cupholder in the center console 🔌

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izzo Member



Online

Member Since 3-18-2004 5473 posts

W Va 94 B3 GLX, 97 GTI, 84 Rabbit GTI, 06 Citroen C5 HDI, 00 Audi A4 1.8TQ, 93 Audi B3 TDI

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Here is a little cupholder mod which I am VERY fond of. It's a dual cupholder off of a MK3 Jetta.

I had to use a dremel and cut a rectangular hole in the front part of the B3 cubby below the ashtray,

working my way in baby steps. The clips on the cupholder hold it just great in the hole. It looks OEM and is very comfortable.



I didn't lose much of the functionality of the cubby there, because the cupholder has a storage area

as well at the back portion; I just had to take of just a little bit off of the left and right side of the cupholder to fit it in the cubby; appears that the B3 cubby is slightly more narrow than the MK3 console.

I have a B4 rear armrest console, and thanks to Soviet B3 who was parting a GLS B4 now I even have

the support bracket for it. Otherwise, put the stinky B3 piece by sliding it in around the handbrake lever, and tighten. It's a good idea to check on the parking brake cables and tighten

them if necessary, before you put the plastic back over them.

Now you can go ahead and put your knee bars/trays back on. Again, look around for something you missed/messed. Make sure you check ALL of the buttons/switches that were removed to ensure they are

properly connected

and working; cluster lights, wiper and turn stalks.

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izzo Member Adding coolant <u>>></u>

<u>« »</u> 4:24 AM 2-15-2007 Reply



Online

Member Since 3-18-2004 5473 posts

W Va 94 B3 GLX, 97 GTI, 84 Rabbit GTI, 06 Citroen C5 HDI, 00 Audi A4 1.8TQ, 93 Audi B3 TDI

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You are pretty much done inside the car, gather your tools and clean /optional/. Last steps, go back under the hood and fit the coolant hoses to the outlets of the heater core. Attach the vacuum hose BEFORE that. In my case it is kinda tight to work, because I have a Neuspeed strut bar /Sorry, dqwolf / and didn't want to remove it. Unscrew the cap off the coolant bubble.

and top it up to the MAX point. Do not close the cap, not just yet - the system has to bleed itself.

The moment of truth, go ahead and start the car. Check for any leaks around every area you workd at.

As the car reaches normal working temperature, with the cap off the coolant tank it should bleed itself

and any air pockets should disappear. Top off coolant again, if necessary.

Make sure to watch the coolant expansion tank, because when the car warms up it may spit coolant out.

Tighten the cap back on.

Do search around if you want detail instructions on bleeding the cooling system Θ

If you are lucky enough, you will have a non-leaking cooling system, plus working heat.

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🗎 VOILA <u>»</u>

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izzo Member

Online



Feel free to contribute, correct me and whatever. I am glad I saved myself the money, and very satisfied because I did the job myself. I took my time with it, cleaned around, etc. <u>Searching</u> the Vortex forums helped a lot.

Member Since 3-18-2004 5473 posts W Va

94 B3 GLX, 97 GTI, 84 Rabbit GTI, 06 Citroen C5 HDI, 00 Audi A4 1.8TQ, 93 Audi B3 TDI

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izzo

	Searching the Vortex forums helped a lot.		
	Forgive my spelling and wording, since i don't speak English, Farsi is my native		
6 00 93	And finally, why all the hassle when you could MAYBE read this thread?!?!?		
	<u>VWbay</u>		
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🗎 And just for kicks.... 🔌

E/

Reply

« » 4:38 AM 2-15-2007 Reply

<u>«</u> » 4:25 AM 2-15-2007

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back in Bulgaria, my father's Citroen C5 2.0 HDI:

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Re: MK3 cupholder in the center console (izzo) 🔌

<u>« »</u> 4:39 AM 2-15-2007 Reply

jaesiv Member

Member Since 1-30-2002 1051 posts

western mass Down to 1 passat wagon, an outback, and a dumb cabby

🗗 🖹 🖚

Nice writeup! Pretty straight forward and clear. I read, and read, and read about replacing mine before I actually did it and wish I read some more. Or had pictures. When I put the new heater core in, the foam padding on top didn't have a hole for the vacuum nub, so I had to make one. Sounds easy, but everytime I put the dash back in and tightened things up, the damn hose fell off!.

I finally got it, but in the process I broke a clip on the door of the heater box and now it blows from all the vents no matter where you put the selector. I have since sold the car and the new owner knows of it, but overall it wasn't as bad as I thought it was going to be.

Oh, and until I read all the way to the end, I was thinking you have a b4 armrest console. I was right. I just put in the same thing on mine. \clubsuit

I've already spent my kids college fund on my vw habit. Does that make me a bad father?

viciousvento Member \blacksquare Re: Removing the dash shell and knee bars/cubbies (izzo) \ge

<u>«</u> » 4:58 AM 2-15-2007 Reply



Offline

Quote, originally posted by izzo »

Member Since 3-14-2001 4473 posts

germansquadville NJ G-Unit!!

🖓 🖹 🖚



I'm having nightmares again seeing this pic.. I just did my friends last weekend

Germansquad....You gotta want it!!!!!!!

Fast.Road.Specialties.

MySpace.com/1fly35i

dsimic Member



Offline

Member Since 3-23-2004 1268 posts

Banja Luka , Bosnia and Herzegovina , Europe 1992 Passat B3 Variant 1.8I 8v

🗗 🖻 🖗

Re: You're good to go ahead and FINALLY replace the sucker of a heater! (izzo) \ge

Quote, originally posted by izzo »

Some people reported that the new heater core is covered in some sort of grease, or whatever other poison to keep it from rust or I don't know what other disease. When installed, that evaporates and smells pretty badly so what you can do is to give the new heater core a thorough but careful bath.

Wiggle the heater box back on place, mate it to the blower box, and make sure both bolts go through the holes on the firewall.

Nice DIY write up! 🕹

Just to confirm that replacement heater core does come covered with some sort of oil, and it's surely a good idea to give it a good bath prior to installation.

Also, while taking apart my Climatronic HVAC box I noticed that all joint points of all pieces that actually make the HVAC box, are covered with some kind of silicone sealant for better

	sealing. And also that was the main reason why I had quite a hard work taking apart all of those pieces as they're holding together pretty strong after removing the clips. Did you notice that sealant, probably cleaning and re-applying the sealant is a good idea?		
	Modified by dsimic at 10:51 AM 2-15-2007		
vasillalov Member	Re: You're good to go ahead and FINALLY replace the sucker of a heater! (dsimic) \ge	<u>«</u> » 1:58 AM Reply 2-17-2007	
VOLKSWAGEN	Dang. That IS a lot of work ঌ 뒏 😁		
Offline			
Member Since 11-4-2003 6052 posts	My DIY and Resources Master Thread List: Click Here		
Bowling Green OH 1999.5 Jetta GL	Quote, originally posted by the_q_jet »		
¢ B @	the_q_jet (12:35 PM 11-30-2006): oh might guru of the mk4 2.0 how art thou!?		
	Quote, originally posted by dvlax40 »		
	wheres vasillalov when i need him 🙁 뒏 뒏		
jamesn67 Member Offline Member Since 11-15-2001 3512 posts Beverly MA 1993 B3 VR6 ∰ 🖹 ∰	■ Re: You're good to go ahead and FINALLY replace the sucker of a heater! (vasillalov) ≫ Nice job Izzo ♣	<u>≪</u> <u>≫</u> 2:22 PM 2-17-2007 Reply	
otisranson Member		<u>« »</u> 11:41 PM 3-1-2007	
Offline Member Since 12-18-2005 400 posts	🕹 Good job! Heater core replacement is never fun. 🧀		
Kennesaw GA 1997 VW B4 Passat	dafjklda;jvnmroiwqvnpoirwnqvnoiwjndlka;mlzcmxvkmcx.mviwopjqp!		
¢ • •			
kayser`soze Member	■ Re: And just for kicks (izzo) ≫	<u>« »</u> 7:42 AM 3-2-2007 Reply	
	뒏 cheers bro, great DIY 🌡 Ӱ		
Offline	your B3 is wicked !!!		







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