

The PET page below might give the impression that the security plate is bolted down with a 20 mm bolt (as the reinforcement bar is bolted with one bolt on each side, and 4 are needed in total). But if you check PET 804-05 nr. 31 at the beginning of this chapter it shows an M8 x 18 bolt, and that is also what I found in the car.

Model	Year	MG	SG	Illustration	Restrictions	UPD	19:34	23.01.2010	PORSCHE	PET	PORSCHE
928	1991	8	04	804-00		248					

Pos	Part Number	Description	Remark	Qty	Model
(1)	928 531 005 10	door in white	/L	1	
		door in white prepared for mirror			
	GRV	prime coated			
(1)	928 531 006 10	door in white	/R	1	
		not prepared for mirror			
	GRV	prime coated			
(1)	927 531 005 10	door in white	/RL/L	1	
		not prepared for mirror			
	GRV	prime coated			
(1)	927 531 006 10	driver's door	/R	1	
		prepared for mirror			
	GRV	prime coated			
2	928 537 345 03	door seal	/L	-90	1
2	928 537 345 05	door seal	/L	91	1
(2)	928 537 346 03	door seal	/R	-90	1
(2)	928 537 346 05	door seal	/R	91	1
3	N 014 770 3	pan-head screw		12	
		M 8 X 16			
4	900 025 007 02	washer		12	
		A 8,4			
5	999 523 102 02	lock washer		12	
		8			
6	928 537 341 02	thrust wedge	/L	1	
(6)	928 537 342 02	thrust wedge	/R	1	
7	900 144 008 02	counters. head tapp. screw		2	
		B 3,5 X 9,5			
8	928 531 601 03	reinforcement		2	
		reinforcement			
9	928 531 235 03	threaded piece		1	
10	N 013 295 1	tensioning sleeve		1	
		3 X 12			
11	928 537 723 02	dummy plug		2	

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928	1991	8	04	804-00		248					

Pos	Part Number	Description	Remark	Qty	Model	Pos	Part Number	Description	Remark	Qty	Model
12	900 075 085 02	hexagon-head bolt		4							
		M 8 X 20									
13	N 012 009 3	lock ring		4							
		A 8									

Next remove the two oval-head screws that hold the outer door lock in place. There is some white residue on the lower bolt, indicating that moisture got into that area:



With the outer door lock out removed you can release the inner door lock mechanism from the door handle and the door lock cylinder. The picture below shows the door lock mechanism; on the left the bolt that held the security plate (that washer apparently becomes a challenge when re-installing the plate) and the on the right the connecting rod between the door handle and the door lock mechanism:



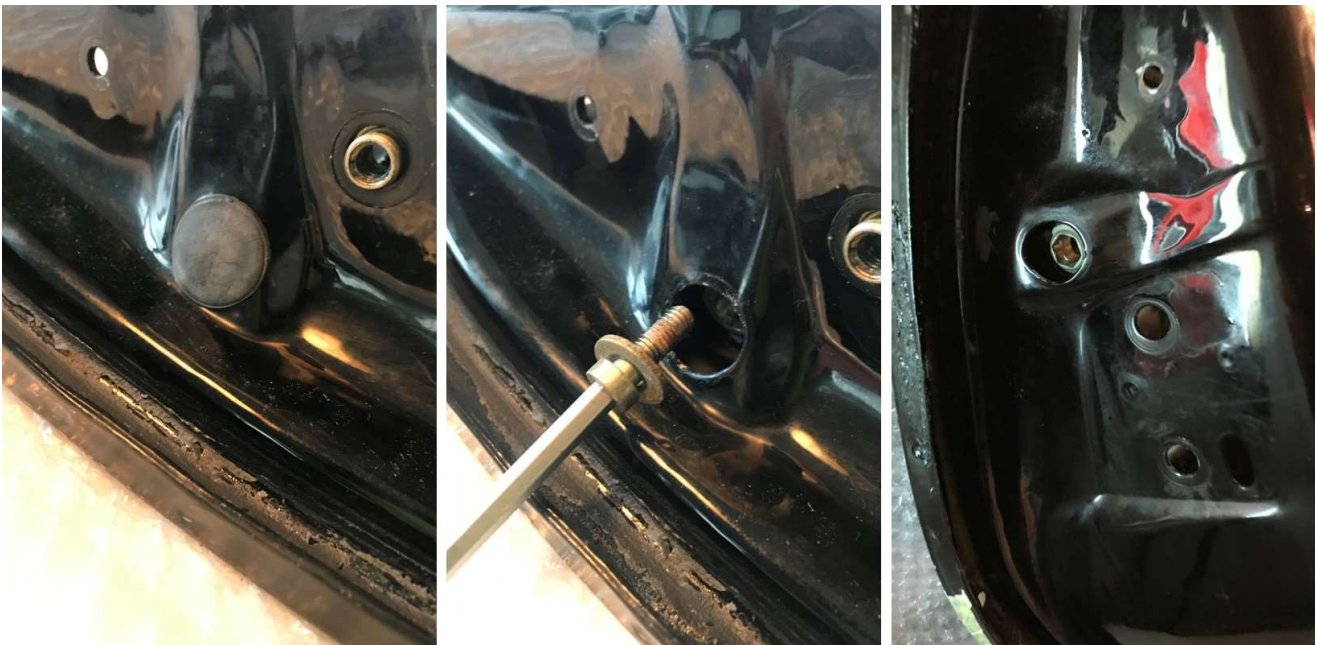
I inserted this tool from the lock mechanism opening in the door and popped the rod of the metal ball. It took me a while to do so as I didn't want to crack the plastic part of the rod:



Push the black rod outwards (upwards in this picture, but remember my door is lying on its back). This will give you access to the white plastic operating rod that connects the lock mechanism to the door lock cylinder. Using the same tool is popped the rod of the metal ball:



The door lock cylinder is still bolted to the door itself. To unbolt it first remove the small plastic cap and then unscrew the allen-head bolt. The picture on the right shows the spacer that sits in the door:



Remove the spacer using a large allen-head screwdriver. I haven't been able to locate this part in PET, but it is shown in the WSM as you can see below on the right:



57 Doors

Doors with the new mounting point and new door lock cylinder require a spacer, 6.4 mm dia. washer, and a M 6 x 18 mm fillister head screw.



Remove the lock cylinder by first gently pushing it outwards from inside of the door. I pushed the white plastic rod in line with the lock cylinder to get it through the hole in the door. It requires a bit of fiddling but in the end it comes out fairly easy:



Release the locking rod from the door lock mechanism by pushing it out of the plastic cap:



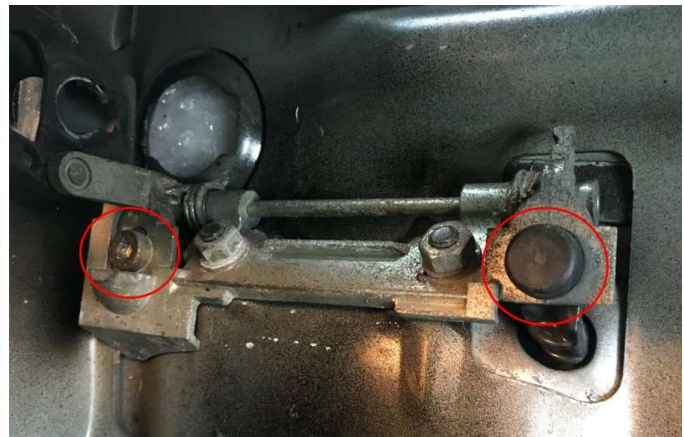
Remove the two pan-head allen-bolts that secure the door lock mechanism to the door. Keep them in a secure place: I haven't been able to find these in PET:



The door lock mechanism is now free so you can take it out. I stored it with the pan-head screws in a plastic bag tie-rapped to it... :-)



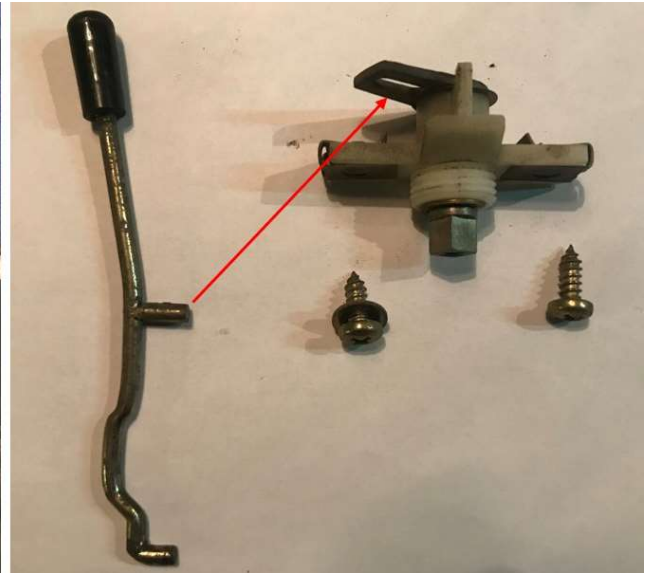
To remove the door handle and inner plate first remove the rubber cap of the front bolt. Next take out the two allen-head bolts that hold the door handle:



Remove the two hexagon nuts that hold the inner plate to the door (I know the allen-head bolts are not removed yet in the left picture.....let's call it artistic freedom... :-))...



Remove the locking rod and bearing from the door. You'll first need to slide the end that's shown in the picture below out of the slot on the bearing. Then remove the two screws on the side of the bearing:



Last thing to do is to remove the door support from the door. Undo the screws and pull it out from the inside. Don't forget to also remove the rubber desk pad that sits between the door support and the door: it tends to stick to the door. Keep an eye on the curve in the door support, to prevent installing it the wrong way around:

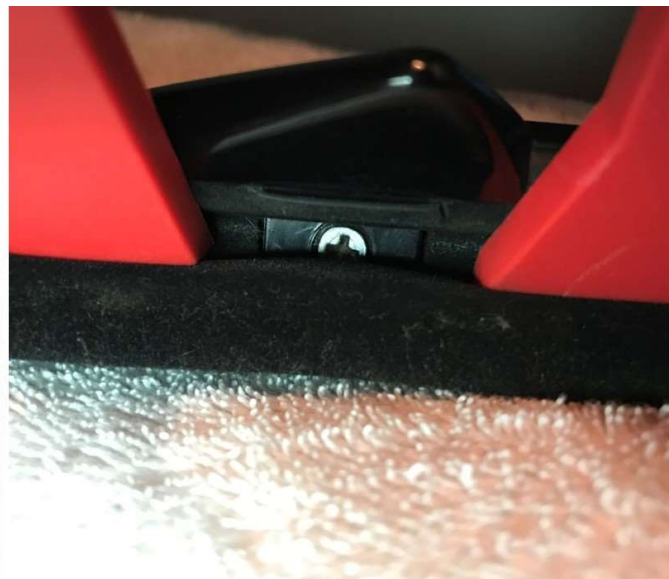


10. Window rubbers & trim:

First remove the triangle-shaped thrust wedge from the window frame by taking out the screw inside the rubber window guide:

Model	Year	MG	SG	Illustration	Restrictions	UPD	19:34	23.01.2010	PORSCHE	PET	PORSCHE
928	1991	8	04	804-00		248					

Pos	Part Number	Description	Remark	Qty	Model
		door in white			
(1)	928 531 005 10	door in white prepared for mirror	/L	1	
	GRV	prime coated			
(1)	928 531 006 10	door in white not prepared for mirror	/R	1	
	GRV	prime coated			
(1)	927 531 005 10	door in white not prepared for mirror	/RL/L	1	
	GRV	prime coated			
(1)	927 531 006 10	driver's door prepared for mirror	/R	1	
	GRV	prime coated			
2	928 537 345 03	door seal	/L	-90	1
2	928 537 345 05	door seal	/L	91	1
(2)	928 537 346 03	door seal	/R	-90	1
(2)	928 537 346 05	door seal	/R	91	1
3	N 014 770 3	pan-head screw M 8 X 16		12	
4	900 025 007 02	washer A 8,4		12	
5	999 523 102 02	lock washer 8		12	
6	928 537 341 02	thrust wedge	/L	1	
(6)	928 537 342 02	thrust wedge	/R	1	
7	900 144 008 02	counters. head tapp. screw B 3,5 X 9,5		2	
8	928 531 601 03	reinforcement reinforcement		2	
9	928 531 235 03	threaded piece		1	
10	N 013 295 1	tensioning sleeve 3 X 12		1	
11	928 537 723 02	dummy plug		2	



Remove the window guide by pulling from the rear corner. Mine came out without a problem:

Model	Year	MG	SG	Illustration	Restrictions	UPD	19:35	23.01.2010	PORSCHE	PET	PORSCHE
928	1991	8	04	804-15		248					

Pos	Part Number	Description	Remark	Qty	Model
1	928 537 075 06	power windows			
		power windows with engine and transmission	/L	-90	1
(1)	928 537 076 06	power windows with engine and transmission	/R	-90	1
(1)	928 537 075 06	power windows with engine and transmission	/L	91	1
(1)	928 537 076 06	power windows with engine and transmission	/R	91	1
2	928 624 013 03	engine and transmission for window opener	/L		1
(2)	928 624 014 03	engine and transmission for window opener	/R		1
3	928 537 909 04	power windows without engine and transmission	/L		1
(3)	928 537 910 04	power windows without engine and transmission	/R		1
4	928 537 918 00	roller			2
5	928 537 917 00	bolt			2
6	N 010 210 13	hexagon-head bolt M 6 X 10			8
7	N 012 226 5	spring washer A 6			8
8	928 537 263 02	guide tube	/L		1
(8)	928 537 264 02	guide tube	/R		1
9	900 067 008 02	pan-head screw M 6 X 12			4
10	900 151 007 02	washer B 7,4			4
11	N 012 006 4	lock ring B 6			4
12	928 537 259 02	slide lower	/L		2

Model	Year	MG	SG	Illustration	Restrictions	UPD	19:35	23.01.2010	PORSCHE	PET	PORSCHE
928	1991	8	04	804-15		248					

Pos	Part Number	Description	Remark	Qty	Model	Pos	Part Number	Description	Remark	Qty	Model
(12)	928 537 260 02	slide lower	/R	2		29	999 049 008 40	plastic nut	90-	1	
13	928 537 289 02	slide upper	/L	2							
(13)	928 537 290 02	slide upper	/R	2							
14	900 075 016 02	hexagon-head bolt M 6 X 22		4							
15	N 011 524 7	washer B 6,4		4							
16	N 012 006 4	lock ring B 6		4							
17	928 537 319 03	sealing for door slot	/L	1							
(17)	928 537 320 03	sealing for door slot	/R	1							
18	928 537 321 03	sealing for door slot outer	/L	1							
18	928 537 322 03	sealing for door slot outer	/R	1							
19	928 537 323 03	window guide	/L	1							
(19)	928 537 324 03	window guide	/R	1							
-	999 920 004 02	u-clamp		10							
20	928 537 085 03	fleet angle		4							
21	N 014 761 2	pan-head screw M 6 X 12		4							
22	N 012 226 5	spring washer B 6		4							
23	999 025 108 02	washer 6,4		4							
24	928 537 285 02	insert		2							
25	999 093 004 02	hexagon-head bolt		6							
26	928 618 040 00	control unit	90-	1							
27	928 618 241 00	support	90-	1							
28	900 143 143 02	tapping screw B 4,2 X 16	90-	1							



Below the relevant Pet pages for reference on window trim:

Model	Year	MG	SG	Illustration	Restrictions	UPD	19:38	23.01.2010	PORSCHE	PET	PORSCHE
928	1991	8	10	810-00		248					

Pos	Part Number	Description	Remark	Qty	Model
1	928 559 103 04	decorative fittings exterior equipment		1	
	70K	cover strip			
2	928 559 295 02	black		1	
3	928 559 245 03	adhesive tape		2	
4	928 559 285 02	sealing strap		9	
5	928 559 105 05	clamp		1	
(5)	928 559 106 05	water drain strip	/L	-90	1
	70K	black			
(5)	928 559 106 05	water drain strip	/R	-90	1
	70K	black			
(5)	928 559 105 07	water drain strip	/L	91	1
	70K	black			
(5)	928 559 106 07	water drain strip	/R	91	1
	70K	black			
6	928 559 213 05	sleeve	/L	1	
	70K	black			
6	928 559 214 05	sleeve	/R	1	
	70K	black			
7	928 559 107 02	clamp		8	
8	928 559 111 05	end piece	/L	1	
	70B	black			
(8)	928 559 112 05	end piece	/R	1	
	70B	black			
9	928 559 119 04	roof edge strip	/L	1	
(9)	928 559 120 04	roof edge strip	/R	1	
10	928 559 121 03	roof edge strip	/L	1	
(10)	928 559 122 03	roof edge strip	/R	1	
		end piece			
11	928 559 151 04	cover strip		-87	1

Model	Year	MG	SG	Illustration	Restrictions	UPD	19:38	23.01.2010	PORSCHE	PET	PORSCHE
928	1991	8	10	810-00		248					

Pos	Part Number	Description	Remark	Qty	Model	Pos	Part Number	Description	Remark	Qty	Model
22	928 537 311 04	moulding	/L	1		24	928 537 301 05	moulding connection	/L	1	
	70K	black					70K	black			
(22)	928 537 312 04	moulding	/R	1		(24)	928 537 302 05	moulding connection	/R	1	
	70K	black					70K	black			
23	928 537 313 04	moulding	/L	1		25 A	928 537 369 03	filler piece	/L	-87	1
	70K	black				(25) A	928 537 370 03	filler piece	/R	-87	1
(23)	928 537 314 04	moulding	/R	1		25	928 537 369 03	desk pad	/L	1	
	70K	black				25	928 537 370 03	desk pad	/R	1	
		lower				-	900 143 114 07	tapping screw		2	
								B 3,5 X 9,5			

Remove the moulding connection (nr. 24) in the front lower corner. It is attached by two pins that click into the holes shown on the picture below on the right. Mine were pretty stuck so they didn't survive (they warped and one of the pins broke off). The filler piece (nr. 25) below the moulding connection is held one by two flat rivets that I drilled out using a 3 mm drill:



Once you drilled the top off the rivets the filler piece comes loose. As the rivets lower part and the holes in the door are slightly wider than 3 mm a small piece of the rivets needs to be pushed out:



Next remove the upper trim piece (nr. 22). I first used a heat gun to heat up the trim piece. I then started above from where the filler piece was and used a plastic tool, tapping on it to get the piece off in that corner:



Work your way towards the top and rear of the door until the piece comes off entirely:



Before removing the hardest part of the window trim (nr. 23) I first separated the rubber outer sealing from the trim:

Model	Year	MG	SG	Illustration	Restrictions	UPD	19:35	23.01.2010	PORSCHE	PET	PORSCHE
928	1991	8	04	804-15		248					

Pos	Part Number	Description	Remark	Qty	Model
1	928 537 075 06	power windows	/L	-90	1
(1)	928 537 076 06	power windows with engine and transmission	/R	-90	1
(1)	928 537 075 06	power windows with engine and transmission	/L	91	1
(1)	928 537 076 06	power windows with engine and transmission	/R	91	1
2	928 624 013 03	engine and transmission for window opener	/L	1	
(2)	928 624 014 03	engine and transmission for window opener	/R	1	
3	928 537 909 04	power windows without engine and transmission	/L	1	
(3)	928 537 910 04	power windows without engine and transmission	/R	1	
4	928 537 918 00	roller		2	
5	928 537 917 00	bolt		2	
6	N 010 210 13	hexagon-head bolt M 6 X 10		8	
7	N 012 226 5	spring washer A 6		8	
8	928 537 263 02	guide tube	/L	1	
(8)	928 537 264 02	guide tube	/R	1	
9	900 067 008 02	pan-head screw M 6 X 12		4	
10	900 151 007 02	washer B 7,4		4	
11	N 012 006 4	lock ring B 6		4	
12	928 537 259 02	slide lower	/L	2	

Model	Year	MG	SG	Illustration	Restrictions	UPD	19:35	23.01.2010	PORSCHE	PET	PORSCHE
928	1991	8	04	804-15		248					

Pos	Part Number	Description	Remark	Qty	Model	Pos	Part Number	Description	Remark	Qty	Model
(12)	928 537 260 02	slide lower	/R	2		29	999 049 008 40	plastic nut	90-	1	
13	928 537 289 02	slide upper	/L	2							
(13)	928 537 290 02	slide upper	/R	2							
14	900 075 016 02	hexagon-head bolt M 6 X 22		4							
15	N 011 524 7	washer B 6,4		4							
16	N 012 006 4	lock ring B 6		4							
17	928 537 319 03	sealing for door slot	/L	1							
(17)	928 537 320 03	sealing for door slot	/R	1							
18	928 537 321 03	sealing for door slot outer	/L	1							
18	928 537 322 03	sealing for door slot outer	/R	1							
19	928 537 323 03	window guide	/L	1							
(19)	928 537 324 03	window guide	/R	1							
-	999 920 004 02	u-clamp		10							
20	928 537 085 03	fleet angle		4							
21	N 014 761 2	pan-head screw M 6 X 12		4							
22	N 012 226 5	spring washer B 6		4							
23	999 025 108 02	washer 6,4		4							
24	928 537 285 02	insert		2							
25	999 093 004 02	hexagon-head bolt		6							
26	928 618 040 00	control unit	90-	1							
27	928 618 241 00	support	90-	1							
28	900 143 143 02	tapping screw B 4,2 X 16	90-	1							

Pull it out from inside the door frame. Mine were in pretty bad shape (cracked all over) and came off by pulling hard:



I then used the thinnest plastic tool I had to carefully tap the trim piece out, starting at the front and working my way towards the rear corner (and the bend in the trim piece):



When I had the trim off almost until the corner I moved over to the other side of the bend and tapped the trim piece out:



The trim pieces and window frame linings got their own crate:



11. Rub Strip & sill cover:

Below the relevant Pet pages for reference on rub strips / protective moulding:

Model	Year	MG	SG	Illustration	Restrictions	UPD	19:38	23.01.2010	PORSCHE	PET	PORSCHE
928	1991	8	10	810-00		248					

Pos	Part Number	Description	Remark	Qty	Model
		decorative fittings exterior equipment			
1	928 559 103 04	cover strip		1	
	70K	black			
2	928 559 295 02	adhesive tape		1	
3	928 559 245 03	sealing strap		2	
4	928 559 285 02	clamp		9	
5	928 559 105 05	water drain strip	/L	-90	1
	70K	black			
(5)	928 559 106 05	water drain strip	/R	-90	1
	70K	black			
(5)	928 559 105 07	water drain strip	/L	91	1
	70K	black			
(5)	928 559 106 07	water drain strip	/R	91	1
	70K	black			
6	928 559 213 05	sleeve	/L	1	
	70K	black			
6	928 559 214 05	sleeve	/R	1	
	70K	black			
7	928 559 107 02	clamp		8	
8	928 559 111 05	end piece	/L	1	
	70B	black			
(8)	928 559 112 05	end piece	/R	1	
	70B	black			
9	928 559 119 04	roof edge strip	/L	1	
(9)	928 559 120 04	roof edge strip	/R	1	
10	928 559 121 03	roof edge strip	/L	1	
(10)	928 559 122 03	roof edge strip end piece	/R	1	
11	928 559 151 04	cover strip		-87	1

Model	Year	MG	SG	Illustration	Restrictions	UPD	19:38	23.01.2010	PORSCHE	PET	PORSCHE
928	1991	8	10	810-00		248					

Pos	Part Number	Description	Remark	Qty	Model	Pos	Part Number	Description	Remark	Qty	Model
31	928 559 037 03	protective moulding	/L	1		33	928 559 041 03	protective moulding	/L	1	
(31)	928 559 038 03	protective moulding	/R	1		(33)	928 559 042 03	protective moulding side section rear	/R	1	
-	928 559 175 03	adhesive tape wing		2		-	928 559 181 03	adhesive tape side section rear		2	
32	928 559 033 03	protective moulding	/L	1		34	928 559 281 02	bush		10	
(32)	928 559 034 03	protective moulding door	/R	1							
-	928 559 965 00	adhesive tape door		2							

To remove the rub strip from the door you first need to remove the lock nut on the rear side of the door behind the door seal. The bolt it locks on to is integrated in the rub strip. Make sure to heat up the adhesive tape using a heat gun; next you can use some dental floss or fishing line to cut through the adhesive tape. Don't pull the strip away from the door more than a few centimeters. The plastic of the strip is very flexible (the paint not so much), which does makes it easier to handle and for me reduced the fear of breaking it:



On the forward side of the door the rub strip 'clicks' into the white plastic bush:



The bush is easily removed from the door; the picture on the right below shows the hole in the door for the integrated bolt on the rear side of the rub strip:



Next is the sill cover:

Model	Year	MG	SG	Illustration	Restrictions	UPD	19:39	23.01.2010	PORSCHE	PET	PORSCHE
928	1991	8	10	810-05		248					

Pos	Part Number	Description	Remark	Qty	Model
		sill cover			
1	928 559 197 02	sill cover	/L	1	
(1)	928 559 198 02	sill cover door	/R	1	
2	928 559 397 03	adhesive tape	/L	1	
(2)	928 559 398 03	adhesive tape corner panel	/R	1	
-	000 043 113 00	adhesive tape 1120 MM 470 MM 62 MM 185 MM 368 MM 165 MM 78 MM		1	
10	928 559 085 02	sill cover	/L	1	
(10)	928 559 086 02	sill cover door sill	/R	1	
11	928 559 083 02	sill cover	/L	1	
(11)	928 559 084 02	sill cover wing	/R	1	
12	928 504 483 04	door sill rail F >>92HS8 40626 F >>92HS8 49605 F >>92HS8 60788	/L	-87	1
(12)	928 504 483 05	door sill rail F 92HS8 40627>> F 92HS8 49606>> F 92HS8 60789>>	/L	1	
(12)	928 504 484 04	door sill rail F >>92HS8 40626 F >>92HS8 49605 F >>92HS8 60788	/R	-87	1
(12)	928 504 484 05	door sill rail F 92HS8 40627>> F 92HS8 49606>> F 92HS8 60789>>	/R	1	
13	N 011 524 7	washer A 6,4		10	
14	900 910 096 02	lock nut M 6		10	

It took a while before I could get a thin plastic tool between the cover and the door skin, but once it became loose it was pretty straightforward. The adhesive tape is still quite strong after 30 years, so it took a while to get the cover off:

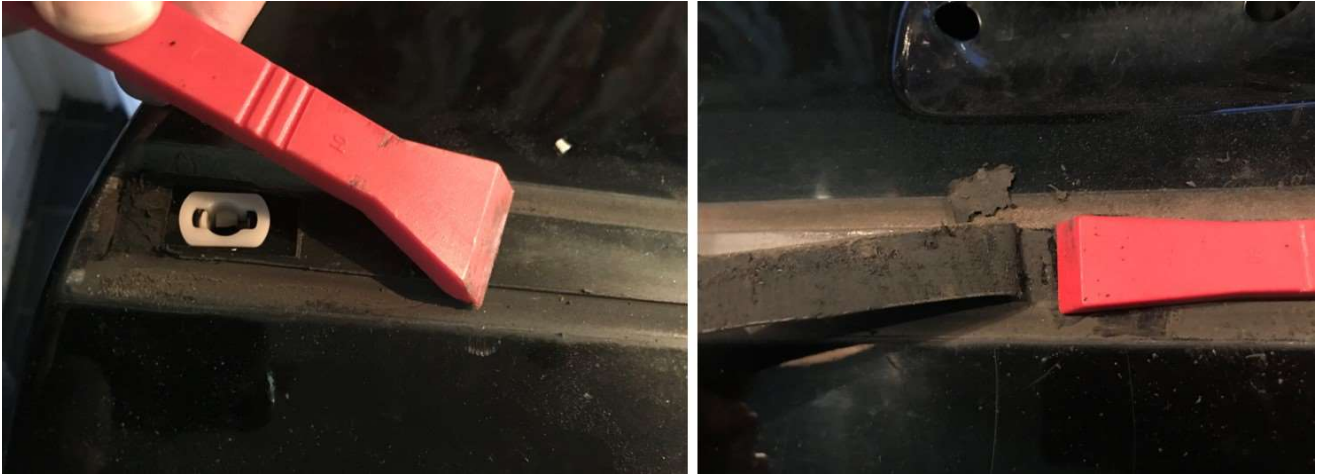


The disadvantage of the plastic tool instead of dental floss or a fishing line is that you do scratch the paint a bit; as my car will be painted I didn't mind:



12. Removing glue and adhesive tape:

I first used a flat plastic tool to remove the thickest layer of the adhesive tape:



Don't use a 'wide' tool, as it will be difficult to keep flat on the surface. Still allow yourself enough time to get it off:



To remove the glue residue I used cloths, acetone and a lot of elbow grease.....



On the inside of the door was a lot of hardened glue, that could only be taken off by again using a lot cloths and of acetone. I spend hours on softening the glue en then very slowly removing it by rubbing with the cloth:



The picture on the left below shows some kind of bathroom sealant being used to keep the door seal in place.

The other two pictures show the slot that holds the door seal. That really was a challenge to clean out; I ended up using wooden skewers to take out the last bits out of the edges:



Another way to remove larger pieces of adhesive tape is a 'caramel disc'. I tried it and it was very effective, not scratching the paint at all! The only downside is the huge amount of tiny rubber parts that come off the disc while using it:



After all glue and adhesive tape was removed I gave the surface a final clean with some degreaser and then some citrus cleaner.

The end result was a very clean and shiny door, ready to be sent off to the aluminum specialist:



