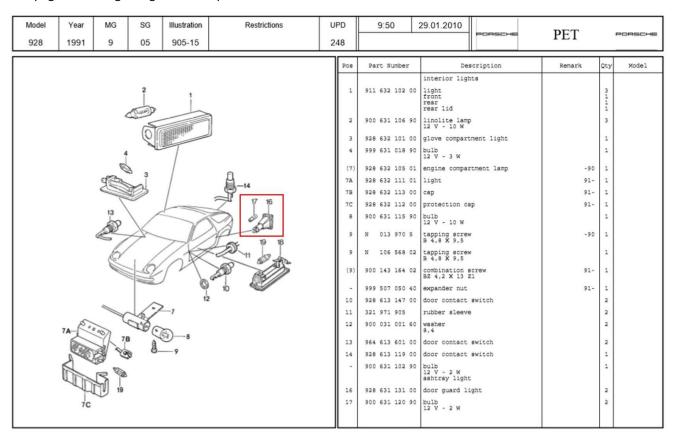
The next part of the harness are the wires to the door guard light. The harness is attached to the body with a small metal clip, shown in the picture below:



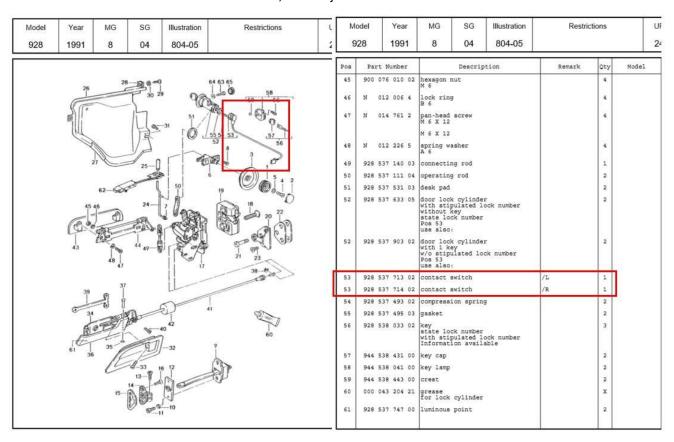
To take the door guard light out you have to reach inside the door and push the small plastic clips on the light housing. You can then just gently pull the housing of the bulb itself:

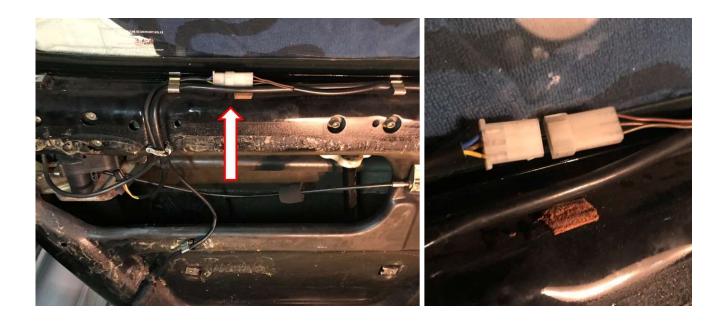


The bulb and housing can be found on the Pet page below, whereas the rubber water protection cap is shown on the PET page at the beginning of this chapter:



Next disconnect the wires for the contact switch, located just below the window:

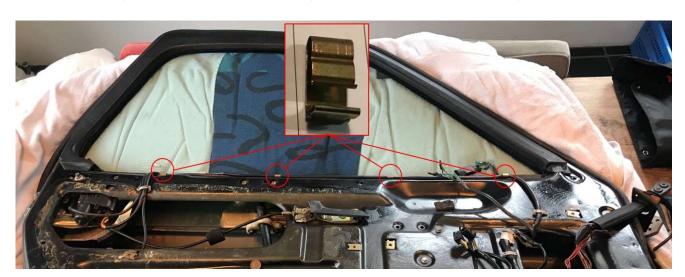




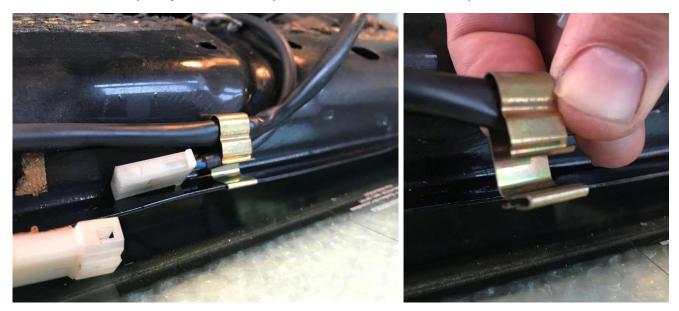
You can now start to remove the grey plastic clips that hold the harness to the vertical part of the door frame. There are 4 in total as shown on the picture below, and I have only been able to safe 1 sort of 'intact':



Remove the 4 clamps that hold the harness to the top of the door frame, as shown in the picture below:



I found the easiest way is to just slide the clamp of the door frame first, and then pull it off the harness.



Both clamp and clip are not shown on PET '91 (only the grey clipp's part no. is mentioned), but they are on PET '82:

Model 928	Year 1982	MG 8	SG 04	Illustration 804-10	Restrictions	UPD 248	17:59	23.01.2010	PET		PORSCHI
						Pos	Part Number	Description	Remark	Qty	Model 1
								central locking system			
				27		1	928 537 471 02	vacuum line red	/L -79	1	
				-	2	2	928 537 472 02	vacuum line red	/R -79	1	
	,			39 28	26	*	928 025 305 03	hose 2,6 x 1,7 red	-79	•	
	11			Un .		3		40 304	-79	2	
	10	18	7 "	JH 3	/	4		350 MM	-79	2	
	1			2-2-4	32 A	5	928 537 473 02	vacuum line blue	-79	1	
			B .		32A 3	7	928 574 723 02	vacuum line black 400 MM	-79	3	
		All	16	32	33	10	928 537 475 02	vacuum line light green	-79	1	
			<b>4</b>	2	25 6	11	928 537 476 02	vacuum line light green	-79	1	
				14		14	928 537 447 02	vacuum line	-79	1	
		,	15	1	3 4 3 1 5	15	928 537 449 02	vacuum line light green	-79	1	
					1	16	926 537 394 02	clamp	-79	8	
			31	HILL		(16)	928 537 394 03	clamp	80-	8	
			000	7		17	928 537 411 02	clip	-79	4	
		2	4 5		10	-	999 911 227 40	base strap	-79		
			30			18		915 MM	-79	2	
		1	1	→-23 →-22		19	926 537 443 02	vacuum reservoir	-79	1	
	S	7	(	21 20		20	900 075 145 02	hexagon-head bolt M 5 X 16	-79	2	
0	30		1		G=1	21	900 025 003 02	washer A 5,3	-79	4	
	7			V-	19	22	N 012 222 4	spring washer A 5	-79	2	

Next part of the harness is the connector for the window motor. It comes off the main harness just above the opening for the motor, and the connector is on top of the motor just inside of the opening. I used a flat screwdriver to carefully loosen the connector:



Last part of the harness to get out is the mirror harness. It disappears into the opening of the window motor and is held there by a small plastic clip:

M	odel	Year	MG	SG	Illustration		Restricti	ons		UPD	)	19:43	23.01.2010	PORSCHE	DET		PORSCHE
9	28	1991	9	02	902-11					248	3			POHSCHE	PET		POHISCHE
Pos	Part	Number		Descrip	tion	Т	Remark	Qty	Mode	1 P	Pos	Part Number	De	scription	Remark	Qty	Model
(2)		12 167 10 12 167 16	33 23			/LL	89 90	1	M537 M537								
(2)		12 167 20	777777			/LL	91		M537								
(2)	927 6	12 167 01	wiring h	arness		/RL	-88	1	M538				ALC: N		100		
(2)	927 6	12 167 05	wiring h	arness		/RL	89	1	M538					- Calling	100		
(2)	928 6	12 167 16	wiring h	arness		/RL	90	1	M538						88		
(2)	928 6	12 167 19	wiring h	arness		/RL	91	1	M538	- 1			64				
3	928 5	55 551 02	cable gu	ide				2		- 1			ALC: NO				
4	999 6	59 002 50	water pr	otection o	ap			2		- 1				277			
5	928 6	12 131 00	connecto	r housing				2							W		
			mounting	parts					<u> </u>					A PROPERTY OF			
-	477 9	71 851	cable cl	ip				4									
-	928 5	37 411 02	cable cl grey	amp				4	Ī						8		

Below is a picture combined of several photo's I took to show the exact routing of the mirror harness:



On the next page is the same picture but with a few additions and explanation. It may take you a minute to understand what the hell I tried to do but just follow the arrows and you'll be fine...:-).....:

- 1. The "loop" of wiring harness shown below and to the right of nr. 1 is normally not there: I pulled the mirror harness back into the door a good 10 centimeters to be able to move it around inside.
- 2. Nr. 2 shows a metal lid that holds the harness down just forward of the entry point. You can easily bend it upwards to free the harness. After this the harness runs underneath the bracket and also underneath the reinforcement bar (that on the other side holds the lock cover, see chapter 9).
- 3. Nr. 3 shows where the harness bends around the reinforcement bar and comes forward towards the opening for the window motor.
- 4. Nr. 4 shows the clip mentioned on the top of this page in place.
- 5. Nr. 5 shows the harness exiting the window motor opening.



After that the harness will be out:



## 6. Window Motor & lift mechanism:

Below the relevant Pet pages for reference:

Model 928	Year 1991	MG 8	SG 04	Illustration 804-15	Restrictions	UPD 248	19:35	23.01.2010 PORSCHE	PET		PORSCHE
						Pos	Part Number	Description	Remark	Qty	Model
						23/5/02		power windows			23500040000
				19		1	928 537 075 06	power windows with engine and transmission	/L -90	1	
181				(A)		(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	
				2	2223 20	(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	
	//	21 22	3 20	1021		(2)	928 624 014 03	engine and transmission for window opener	/R	1	
		~ @ @		7	14	3	928 537 909 04	power windows without engine and transmission	/L	1	
				18	16 15	(3)	928 537 910 04	power windows without engine and transmission	/R	1	
					OF THE PARTY OF TH	4	928 537 918 00	roller		2	
	0 - 5				190~ II	5	928 537 917 00			2	
			6	1	₩ ₩ 12	6	N 010 210 13	hexagon-head bolt M 6 X 10		8	
			25		8	7	N 012 226 5	spring washer A 6		8	
			0 /	800		8	928 537 263 02	guide tube	/L	1	
			B [ ]	00/	9-24	(8)	928 537 264 02	guide tube	/R	1	
	26	29 6	7	- January and		9	900 067 008 02	pan-head screw M 6 X 12		4	
				1	4 5 1	10	900 151 007 02	washer B 7,4		4	
		2 2	2	3,		11	N 012 006 4	lock ring B 6		4	
		100 20				12	928 537 259 02	slide lower	/L	2	

Мс 92	del 28	Year 1991	MG 8	SG 04	Illustration 804-15		Restriction	ons		UP 24	5	19:35	23.01.2010	PORSCHE	PET		PORSCHE
Pos	Part	Number		Descrip	tion	1	Remark	Qty	Model	2	Pos	Part Number	D	escription	Remark	Qty	Model
(12)	928 53	17 260 02	slide lower			/R		2			29	999 049 008 40	plastic nut		90	- 1	
13	928 53	17 289 02	slide upper			/L		2									
(13)	928 53	7 290 02	slide upper			/R		2									
14	900 07	5 016 02	hexagon-l	head bolt				4									
15	N 01	1 524 7	washer B 6,4					4									
16	N 01	2 006 4	lock ring	g				4									
17	928 53	7 319 03	sealing :	for door	slot	/L		1									
(17)	928 53	7 320 03	sealing :	for door	slot	/R		1									
18	928 53	7 321 03	sealing :	for door	slot	/L		1									
18	928 53	17 322 03	sealing :	for door	slot	/R		1									
19	928 53	7 323 03	window g	uide		/L		1									
(19)	928 53	7 324 03	window g	uide		/R		1									
-	999 92	0 004 02	u-clamp					10									
20	928 53	7 085 03	fleet and	gle				4									
21	N 01	4 761 2	pan-head M 6 X 12	screw				4									
			M 6 X 12														
22	N 01	.2 226 5	spring w	asher				4									
23	999 02	5 108 02	washer 6,4					4									
24	928 53	7 285 02	insert					2									
25	999 09	3 004 02	hexagon-	head bolt				6									
26	928 61	8 040 00	control	unit			90-	1									
27	928 61	8 241 00	support				90-	1									
28	900 14	3 143 02	tapping B 4,2 X	screw 16			90-	1									

To be able to remove the window motor and lift mechanism I needed to get the interior door handle out of the way first. Take the 3 screws out (nr. 40 in the PET picture below) and make sure to also take out the nut lock that's on the inside and is held by the same 3 screws (nr. 39). You can then move the door handle to the side allowing you to eventually take the window motor and lift mechanism out through the opening.

Model 928	Year 1991	MG 8	SG 04	Illustration 804-05	Restrictions	UPD 248	19:34	23.01.2010	PET	PORSCHE
	39	37				35		speed nut D = 4,0 interior handle satin black	/L	2 1
	61	35		40 42	50	(36)	928 537 170 00	interior handle satin black	/R	1 2
	36	le le	13—¶	6 12		39 40	928 537 157 02 900 269 015 02	nut lock countersunk-head screw M 5 X 10		6

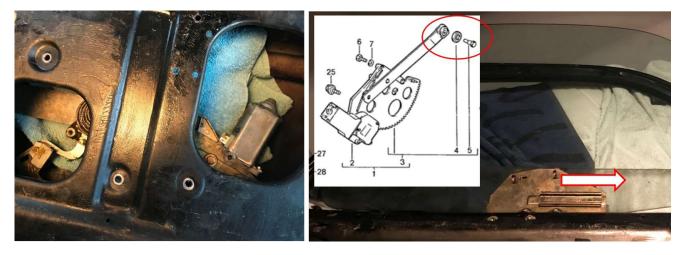


Unscrew the motor and lift mechanism by removing the 4 bolts shown below in the picture on the left. As I wanted to get the window guide tube out of the way as well before removing the motor and lift mechanism I put a towel below the motor to prevent any damage to the aluminum:





Move the motor and lift mechanism forward to free the roller from the guide rail. Lower them onto the towel and leave them there until the window guide tube is out:



## 7. Window guide tube, slides & felt guides:

As there is nothing to hold the window in place you can slide it down a bit until the bolts keeping the lower slide in place are accessable. Remove the two bolts:



Slide the window down even further until you can see the two bolts that attach the upper slide to the window. Remove these bolts as well:



Unscrew the two allen bolts that attach the guide tube to the door frame. Then pull the guide tube free from the pin on the inside-bottom of the door:



You should now have enough room to take the window motor and lift mechanism out through the opening:



Removing the felt guides is a tricky job and requires a bit of patience. My big tip: NEVER use an allen-head screwdriver with a round tip to loosen the bolt! Mine snapped leaving the tip inside the bolt......





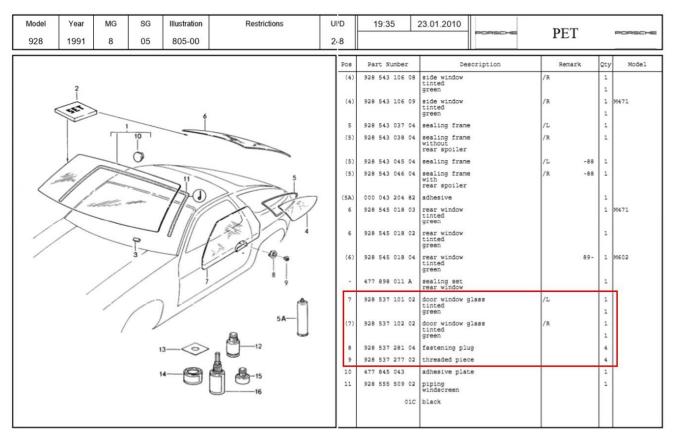
It took 3 days of drilling and numerous drills to finally drill a small hole in the bolt, enabling me to get a small metal hook behind the tip and force it out. Luckily the inside of the bolt was still in good enough shape to then use a regular allen-head screwdriver and remove the bolt.

When the bolts are out the felt guides will slide down on the inside of the door, allowing you to take the glass out.

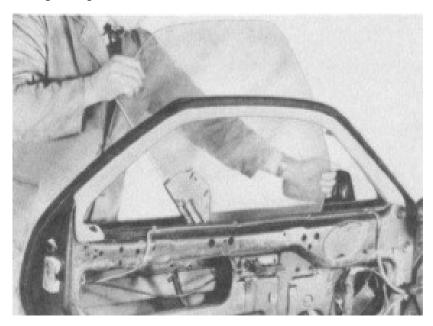


## 8. Glass:

Here's the relevant PET page for reference:



The WSM shows at what angle the glass should be lifted out of the door:



When I tried to do that I just couldn't get the glass through the opening, it simply wasn't wide enough. The picture below shows the bracket attached to the window: the guide rail and mounts for the lower slide are slightly to high. I used three plastic tools and pushed the middle one in between the others, creating enough space to get the window out.









After a good clean-up I wrapped it in bubble-plastic and stored it away in a very safe place...!!!!



## 9. Door lock mechanism, door handle & door support:

Below the relevant Pet pages for reference:

Model 928	Year 1991	MG 8	SG 04	Illustration 804-05	Restrictions	UPD 248	19:34	23.01.2010	PET		PORSCHE
						Pos	Part Number	Description	Remark	Qty	Model
	45	48 7	25-25-24-33-33-13-1	51 50 50 77 77 77 77 77 77 77 77 77 77 77 77 77	59 58 58 59 56 66 59 56 66 59 56 66 69 59 66 69 59 66 69 59 66 69 59 59 66 69 59 59 60 60 60 60 60 60 60 60 60 60 60 60 60	Pos 1 2 3 4 5 6 7 8 9 10 11 12 13 14 (14) 15 (15) 16 17 (17)	928 537 581 03 911 531 703 00 928 537 585 02 999 218 010 02 N 011 665 3 928 537 096 02 993 531 563 00 N 013 968 7 928 537 033 04 N 011 524 7 928 537 451 02 928 537 419 03 928 537 417 02 928 537 426 02 928 537 426 02 928 537 426 02 928 537 426 02	installation parts for door differing parts for cars with alarm system see group 8/04/20 rotary knob cap bearing shell cval-head screw M 5 X 12 washer B 5,3 bearing linkage clip tapping screw B 4,8 X 13 door support washer A 6,4 pan-head screw desk pad pan-head screw bearing bracket bearing bracket bearing bracket desk pad	/L /R /L -88 /R -98	2 2 2 2 2 4 4 2 2 1 1 1 1 4 1	Model

M	odel \	/ear	MG	SG	Illustration	F	Restrictions			UPD	19:34	23.01.2010	PORSCHE	PET		PORSCHE
9	28 1	1991 8 04 804-05			248				TEI							
Pos	Part Num	nber		Descrip	tion	Rema	ark	Qty	Model	Pos	Part Number	De	scription	Remark	Qty	Model
(17)	928 537 (		door lock			/LL/L	89-	1		28	999 507 348 02	speed nut B 4,8			4	

Pos	Part Number	Description	Remark	Qty	Model	Pos	Part Number	Description	Remark	Qty	Model
(17)	928 537 053 09	door lock inner part	/LL/L 89-	1		28	999 507 348 02	speed nut B 4,8		4	
(17)	928 537 054 10	door lock inner part	/LL/R 89-	1		28	999 507 348 01	speed nut B 4,8		4	
(17)	927 537 053 10	door lock inner part	/RL/L 89-	1		29	900 143 118 02	tapping screw B 4,8		4	
(17)	927 537 054 09	door lock inner part	/RL/R 89-	1		30	900 151 028 02	washer B 4,3		4	
18	928 537 721 02	oval-head screw outer part		4		31	N 010 239 11	hexagon-head bolt M 8 X 18		2	
(19)	928 537 153 03	door lock outer part	/L	1		(32)	928 537 545 02	finger plate	/L	1	
19	928 537 154 03		/R	1		32	928 537 546 02	finger plate	/R	1	
0.000		outer part		188		33	900 269 006 07	countersunk-head screw M 4 X 8		2	
20		door lock striker	-89	2		34	928 537 049 02	bearing plate	/L	1	
20		door lock striker	90-	1		(34)	928 537 050 02	bearing plate	/R	1	
21	928 537 131 03 928 537 131 03		-89 90-	2		35	999 591 242 01	speed nut		2	
22	928 537 135 04		-90	2		36	928 537 169 00	interior handle	/L	1	
(22)	928 537 135 04	desk pad	91	2		5.07	708	satin black			
23	900 249 024 00	countersunk-head screw M 8 X 25		4		(36)		interior handle	/R	1	
24	928 537 160 04	locking rod		2			70B	satin black			
(24)	928 537 160 05	locking rod	89-	2		37	928 537 557 02	bolt		2	
25	928 555 359 02		-88	2		38	900 116 002 01	lock washer		2	
(25)	928 637 138 00		89-	2		39	928 537 157 02	nut lock		2	
(23)		satin black		-		40	900 269 015 02	countersunk-head screw M 5 X 10		6	
26	928 537 333 03	covering for lock	/L -88	1		41	928 537 055 02	bowden cable		2	
(26)	928 537 333 04	covering for lock	/L 89-	1		42	911 613 636 00	damping piece		2	
(26)	928 537 334 03	covering for lock	/R -88	1		43	928 537 661 02	grab plate		2	
(26)	928 537 334 04	covering for lock	/R 89-	1		44	928 537 063 04	bearing	/L	1	
-	999 911 037 50	tread				(44)	928 537 064 04	bearing	/R	1	
27	-	70 MM		2							

Мо	odel	Year	MG	SG	Illustration	Rest	rictions		UPD		19:34	23.01.2010		DET		
9	28	1991	8	04	804-05				248				PORSCHE	PET		PORSCHE
Pos	Part	Number		Descrip	tion	Remark	Qty	Model	Pos	s	Part Number	De	scription	Remark	Qty	Model
45	900 07	6 010 02	hexagon:	nut			4		62	2	928 637 137 00	pulse sender		89-	2	
46	N 01	2 006 4	lock rin	g			4		63	3	900 119 035 02	pan-head scr M 6X8	ew		2	
47	N 03	4 761 2	1000000	Saran			4		64	4	N 011 524 7	washer			2	
"	14 01	101 2	M 6 X 12	screw			'		65	5	999 703 224 40	cap			2	
			M 6 X 12						66	6	928 537 630 02	bulb			1	
48	N 01	2 226 5	spring w A 6	asher			4									
49	928 53	37 140 03	connecti	ng rod			1									
50	928 53	7 111 04	operatin	g rod			2									
51	928 53	37 531 03	desk pad				2									
52	928 53	37 633 05	without .	key ck number	r ock number		2									
52	928 53	37 903 02	door loc with 1 k w/o stip Pos 53 use also	ey ulated lo			2									
53	928 53	713 02	contact	switch		/L	1									
53	928 53	714 02	contact	switch		/R	1									
54	928 53	7 493 02	compress	ion spring	3		2									
55	928 53	7 495 03	gasket				2									
56	928 53	38 033 02	state lo	ck number pulated lo ion availa	ock number able		3									
57	944 53	88 431 00	key cap				2									
58	944 53	88 041 00	key lamp				2									
59	944 53	88 443 00	crest				2									
60	000 04	3 204 21	grease for lock	cylinder			x									
61	928 53	37 747 00	luminous	point			2									

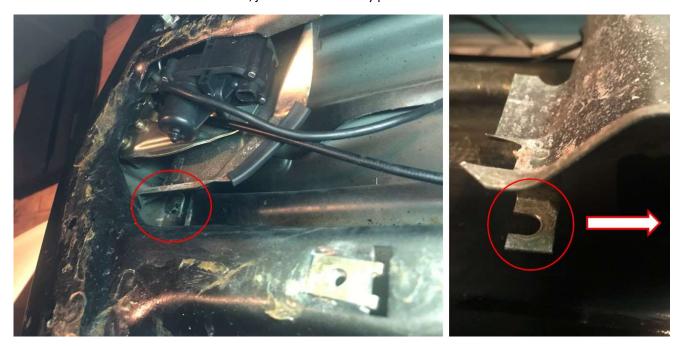
First job is to remove the lock security plate. To do so, remove the two screws indicated in the pictures below:







The security plate is held at the bottom by the bolt that attaches the reinforcement bar to the door frame. Loosen the bolt but DO NOT take it out: there is quite some tension on that bar, and it will be very difficult to get the bolt back in afterwards. When the bolt is loose, just slide the security plate out.



There is some rust on my plate, indicating there was some moisture in the door. Having no vapor barriers probably didn't help....

