

This spreadsheet tracks the time and parts cost for the conversion of a 1973 Porsche 914 to full electric drive.

The blog for the project is maintained at <http://porsche914e.blogspot.com/>

Summary

Electric Conversion Hours:	110:00
Electric Conversion Parts:	\$15,818.15
Restoration Hours:	149:25
Restoration Parts:	\$8,833.30
Income Offset	\$5,971.09
Total Hours	259:25
Total Cost	\$24,651.45
Non-Offset Costs	\$18,680.36

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Notes:  
7 3/4" clearance just in front of rear driver-side wheel  
Rear shocks/springs KYB KG9003 UA23

## Conversion Tasks

Task #	Electric Conversion
1	Order electric motor
2	Order battery racks
3	Order battery boxes
4	Order hub adapter plate
5	Order controller
6	Order charger
7	Order batteries
8	Order potbox
9	Order contactor
10	Order DC/DC converter
11	Order PakTrakr
12	Order CV boots
13	Remove Front Hood
14	Remove Rear Hood
15	Remove Engine Cover
16	Drain gas tank
17	Remove Gas Tank
18	Remove Driveshafts
19	Remove shift linkage
20	Remove Engine and Transmission
21	Remove Exhaust
22	Remove transmission from engine
23	Remove clutch
24	Remove flywheel
25	Remove Battery
26	Media blast box
27	Repair rust
28	Prime, paint and clear coat
29	Repair battery tray area
30	Check springs, order and remove if not upgraded
31	Check brakes, order and remove if not upgraded
32	Repair and prime any rust in engine compartment
33	Install springs if needed
34	Install brakes if needed
35	Install controller
36	Install potbox
37	Repair transmission
38	Repair clutch and flywheel
39	Install clutch and flywheel
40	Install hub adapter plate
41	Mount transmission to engine
42	Install new wiper/blinker mechanism
43	Install engine and transmission
44	Install shift linkage
45	Install driveshafts
46	Install wiring harness
47	Install battery racks
48	Install battery boxes
49	Install relays
50	Install charger
51	Install charging plug
52	Install DC/DC converter
53	Install batteries
54	Install battery cables
55	Install PakTrakr
56	Install new fuse holder
57	Write Android battery system application
58	Install gauges
59	Install engine cover
60	Install rear hood
61	Install front hood
62	Install radio





Restoration Tasks

Task #	Restoration
1	Buy creeper
2	Buy jack stands
3	Temporarily secure radio
4	Repair wipers
5	Cut blinker-on-while-parked wire
6	Re-attach rear-view mirror
7	Mount speakers into speaker box 4-25" centers
8	Repair air blower
9	Refurbish passenger door swing
10	Repair high beams
11	Repair blinker auto-off
12	Replace interior light – not as bright
13	Fix ignition key jiggle problem
14	Replace front-left targa clip
15	Repair slow leak in l/r tire
16	Replace missing relay
17	Refurbish wire patch from relay panel
18	Remove dashboard
19	Repair odometer
20	Repair blinker indicator in tach
21	Make gauge lights brighter
22	Repair heater area lighting
23	Repair horn
24	Repair sticky throttle
25	Replace spare tire windshield system with electric pump
26	Replace electric unit on ignition switch
27	Remove seats
28	Remove antenna
29	Remove seat back panel
30	Remove carpet
31	Remove steering wheel and stalk cluster
32	Remove front and rear bumpers
33	Remove door panels
34	Remove rocker panels
35	Repair pedal cluster
36	Repair shift linkage
37	Refurbish dashboard
38	Refurbish upper front windshield fascia
39	Refurbish upper rear windshield fascia
40	Refurbish seat back panel
41	Refurbish seats
42	Refurbish seat runners
43	Refurbish carpet
44	Refurbish passenger window gasket
45	Refurbish targa headliner
46	Refurbish targa rear gasket
47	Remove all exterior trim
48	Refurbish front and rear bumpers
49	Tighten boot latch
50	Repair and prime all rust and damaged areas
51	l/r wheel arch rust spot
52	l/r behind door rust patch
53	rust spots near rear trunk release button
54	r/r paint chip x-3
55	r/r rust patch behind door latch
56	passenger door paint chip x-3
57	passenger door sill rust
58	r/r rust patch at bottom in front of door
59	r/r rust patch at scuttle corner
60	r/r rust patch on fender top
61	r/r paint chip x-4
62	l/r headlight paint chip and paint ridge
63	front trunk paint chips
64	front hood light rusting under seams, multiple paint chips
65	front scuttle paint peeling
66	l/r scuttle bad rust and patching
67	l/r fender paint chips
68	l/r rust at bottom/r and top/r
69	windshield frame top paint chipped from targa removal
70	driver door bad rust on trailing edge
71	targa top
72	Media Blast
73	Prime body
74	Key all paint surfaces
75	Paint body
76	Replace windshield
77	Buy under-front-bumper black trim
78	Install all exterior trim
79	Install original side-view mirrors
80	Tighten glove compartment
81	Design car PC: GPS, radio, bluetooth phone, battery stats, electric r
82	Install new antenna
83	Install car PC
84	Install new 12V socket in dashboard
85	Install dashboard
86	Install Dynamat
87	Install carpet
88	Install seat belts through bracket in rollbar
89	Install seat runners
90	Install seat back panel
91	Install seats
92	Install heater
93	Install jack hole plugs
94	Replace light bulbs with LEDs
95	Buy car cover
96	Miscellaneous





Parts Sources and Pricing

Component	Manufacturer	Model	ElectroAutomotive	EVParts.com	GrassRootsEV	EVParts.com	Notes
Motor	NetGain	WarP 11	\$3,025.00		\$2,965.00		Not listed for EA VoltsPorsche kit?
		WarP 9	\$1,750.00		\$1,670.00		EA charging NetGain list price
Contactora	Albright	SW200	\$165.00	\$133.40			
Controller	Curtis/PMC	1221C	\$1,325.00				
		1231C	\$1,725.00				
Potbox	Curtis/PMC	PB6	\$115.00				
Circuit Breaker	Heinemann		No price or details				
Charger	Zivan	NG3 110 w/temp	\$1,071.00				
		NG3 230 w/temp	\$1,071.00				
	Russco	SC 18-120	No price or details				
DC-DC Converter	Sevcon	TDC 128/12V	No price				
	Iota	DLS-45				\$130.00	
	CC-Power						Do not get this!
NetGain dealer list:	<a href="http://www.go-ev.com/dealers-usa.html">http://www.go-ev.com/dealers-usa.html</a>						