

## Important Instructions

**Subject:** Replacement brown cam timer

**Use With:** -- for service only -- all OPL touch button machines

**Art. Code kit:** 245/00100/00

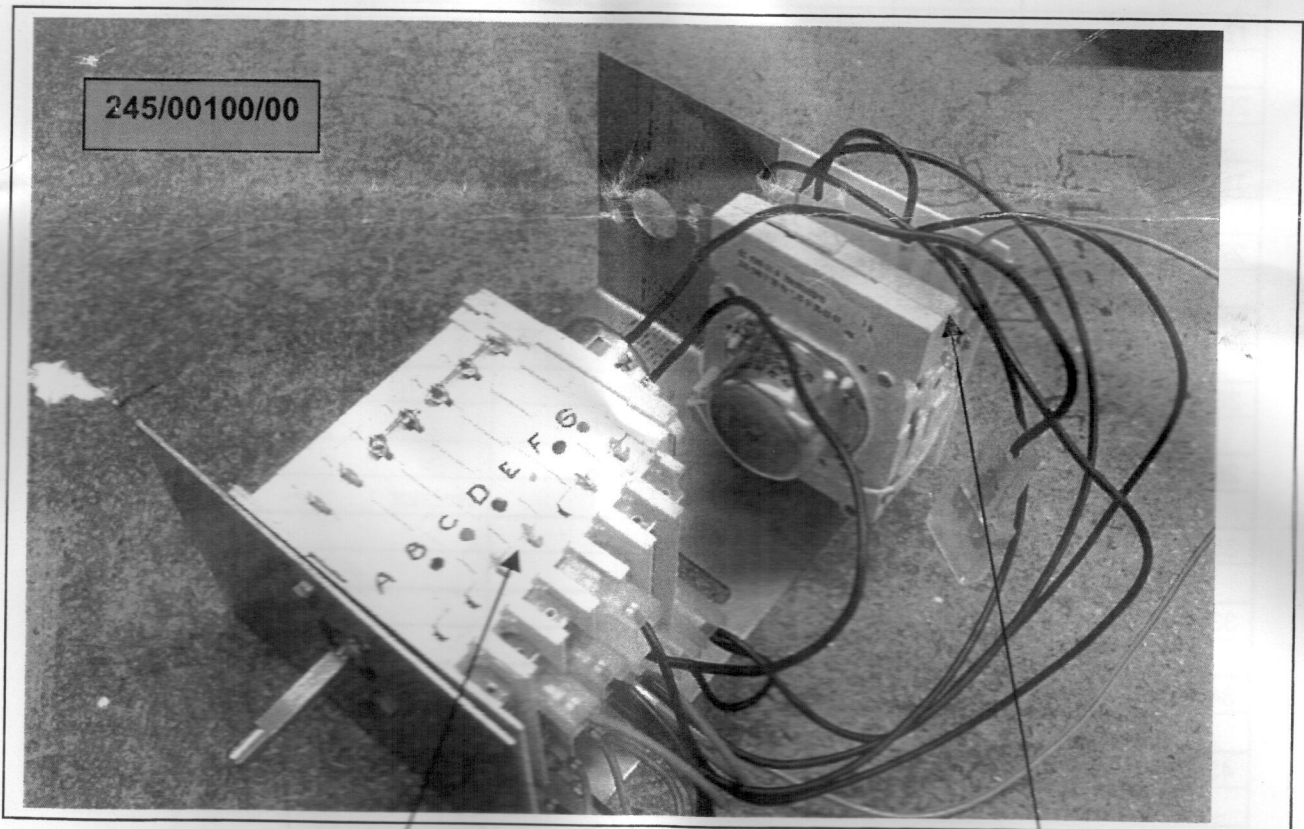
**Kit Consists of:**

- Main timer M1 (50/60Hz) - Art. 209/00693/00
- Auxiliary timer M2 (50/60Hz) - Art. 209/00693/10
- Assembly plate
- Wiring between Main timer M1 and Auxiliary timer M2

→ The current programmer (Cam timer IO1126 50Hz art. 209/00106/00 and Cam timer IO1134 60Hz art. 209/00107/00) must be replaced by the 2 new parts: Main timer M1 (50/60Hz) - Art. 209/00693/00 and timer M2 (50/60Hz) - Art. 209/00693/10

The new timers (partly pre-wired \*) are delivered on an assembly plate. For the complete conversion you have to change the wires from the old timer one by one to the new timers as instructed below:

\*please find the details of the pre-wiring of the timers on the last page of these instructions !



Auxiliary timer M2 (50/60Hz)  
Art. 209/00693/10

Main timer M1 (50/60Hz)  
Art. 209/00693/00

Wiring-instructions for the high-spin machines (2 motors)

Contact old timer	Contact	Contact new timer	Remark
3-5.	3	G8	Isolator
	5	G4 jumper F9	
1-7.	1	C1	
	7	Contac not used	
4-6.	4	B5,B2,W repeating-system	
	6	B4	Isolator
2-8.	2	Contac not used	
	8	Contac not used	
11-13.	11	Contac not used	
	13	Contac not used	
9-15.	9	Contac not used	
	15	Contac not used	
12-14.	12	C12 (jumpers)	
	14	Contac not used	
10-16.	10	Contac not used	
	16	C9	Isolator
19-21.	19	G11	
	21	F9 jumper G4	
17-23	17	G12	Isolator
	23	Contac not used	
20-22	20	B12 (jumper)	
	22	Contac not used	
18-24	18	Contac not used	
	24	B9	Isolator
27-29	27	Contac not used	
	29	Contac not used	
25-31	25	Contac not used	
	31	Contac not used	
28-30	28	D12 (jumper)	
	30	Contac not used	
26-32	26	Contac not used	
	32	D9	Isolator
35-37	35	Contac not used	
	37	Contac not used	
33-39	33	F7	
	39	Contac not used	
34-40	34	Contac not used	
	40	B2,B5,W repeaters	
43-45	43	G2	Isolator
	45	Contac not used	
41-47	41	Contac not used	
	47	Contac not used	
44-46	44	D2	
	46	Contac not used	
42-48	42	A10	
	48	F12 (jumper)	
51-53	51	F1	
	53	Contac not used	
49-55	49	G1 jumper F5	
	55	Contac not used	

Wiring-instructions for the high-spin machines (2 motors)

Contact old timer	Contact	Contact new timer	Remark
52-54	52	Contac not used	
	54	Contac not used	
50-56	50	Contac not used	
	56	Contac not used	
59-61	59	<del>W</del> E2	
	61	Contac not used	
57-63	57	<del>W</del> F5 jumper G1	
	63	Contac not used	
60-62	60	A3	Isolator
	62	A2	
58-64	58	Contac not used	
	64	Contac not used	
67-69	67	<del>W</del> E5 en E6	
	69	Contac not used	
65-71	<del>W</del> 65	<del>W</del> E8	
	71	E4	Isolator
68-70	68	Contac not used	
	70	Contac not used	
66-72	66	E9	Isolator
	72	E12	
		D3	motor timer

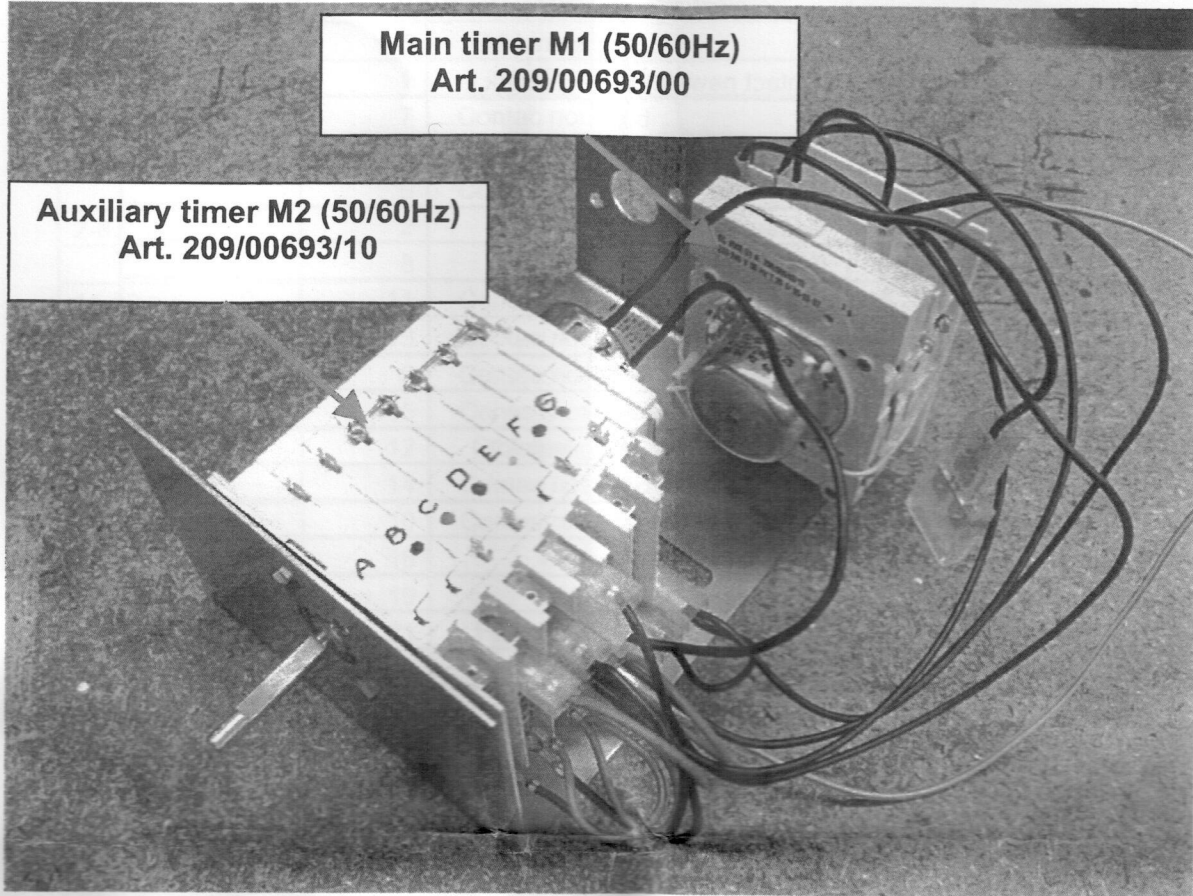
Wiring-instructions for the low-spin machines (1 motor)

Contact old timer	Contact	Contact new timer	Remark
3-5.	3	G8	Isolator
	5	G4 jumper F9	
1-7.	1	C1	
	7	Contac not used	
4-6.	4	Contac not used	
	6	Contac not used	
2-8.	2	A8	
	8	A4	
11-13.	11	Contac not used	
	13	Contac not used	
9-15.	9	Contac not used	
	15	Contac not used	
12-14.	12	C12 (jumpers)	
	14	Contac not used	
10-16.	10	Contac not used	
	16	C9	Isolator
19-21.	19	G11	
	21	F9 jumper G4	
17-23	17	G12	Isolator
	23		
20-22	20	B12 (jumpers)	
	22	Contac not used	
18-24	18	Contac not used	
	24	B9	Isolator
27-29	27	Contac not used	
	29	Contac not used	
25-31	25	Contac not used	
	31	Contac not used	
28-30	28	D12 (jumpers)	
	30	Contac not used	
26-32	26	Contac not used	
	32	D9	Isolator
35-37	35	Contac not used	
	37	Contac not used	
33-39	33	F7	
	39	Contac not used	
34-40	34	Contac not used	
	40	B2	
43-45	43	G2	Isolator
	45	Contac not used	
41-47	41	F2	
	47	Contac not used	
44-46	44	D2	
	46	Contac not used	
42-48	42	A10	
	48	F12 (jumpers)	
51-53	51	F1	
	53	Contac not used	
49-55	49	G1 jumper F5	
	55	Contac not used	

Wiring-instructions for the low-spin machines (1 motor)

Contact old timer	Contact	Contact new timer	Remark
52-54	52	Contac not used	
	54	Contac not used	
50-56	50	Contac not used	
	56	Contac not used	
59-61	59	E2	
	61	Contac not used	
57-63	57	F5 jumper G1	
	63	Contac not used	
60-62	60	A3	Isolator
	62	A2	
58-64	58	Contac not used	
	64	Contac not used	
67-69	67	E5 and E6	
	69	Contac not used	
65-71	65	E8	
	71	E4	Isolator
68-70	68	Contac not used	
	70	Contac not used	
66-72	66	Contac not used	
	72	Contac not used	
		D3	Motor timer

Pre-wiring of the Timer M1 and M2



Color	Remark
Black	C3 to B12
Rood	B10 - C10-D10-B3
Black	C4-A12
Black	D6-B10 timer M1
Yellow/red	E12-A1 timer M1
Black	F10-G10- B3 timer M1-B9 timer M1
Black	C2-B11 timer M1
Black	C5ofC6-B12 tiner M1
Red	Jumper from D5 to D8