

PHILLIPS D7 TELEVISION CHASSIS

DEAD or SHORTED FLYBACK

SEVERAL OTHER COMPONENTS DAMAGED

Model & Chassis

TP2781 EMD770

TS3258 EMD780

TP3281 EMD782

TS3658 EMD790

TP3681 EMD792

Many cases of shorted flyback transformers have been reported on these models. The symptom is identified by the the front panel flashing anywhere from 2 to 5 times, after an attempt was made to turn on the television.

Some transformers might have a hole burned in the side, but not always. If the transformer is defective there is a high probability that more components may be damaged. These are listed in the table of this document. Before you power up the set be sure to check all of the parts listed in the table. Components like 7150 cannot be tested, just replace it. **NOTE: Diode 6328 may be blown off board.**

Reports from technicians have surfaced, that after replacing the bad flyback, they indicate, "No high voltage or horizontal drive or no video." The LED in front still flashing.

It is highly recommended you may consider checking and/or replacing the following components. Part numbers vary according to model. The attached parts/model matrix will help you determine the correct part number for your model.

Location	Description	PCB coordinates
7150	JUNGLE IC	F1
6328	SMD DIODE	E2
7325	SMD TRANSISTOR	E2
3331	SMD RESISTOR	E2
3610	RESISTOR	H5
7830	RGB DRIVER	CRT BOARD
7629	BEAM PROTECT TRANSISTOR	H4
3162	B+ limiter 3.3 ohm 1/3w	F-2
5630	FLYBACK TRANSFORMER	G3



Phillips D7

Model/Parts Cross Reference Matrix

The first row in the matrix is the "MODEL/CHASSIS". The PART LOC. coulomb lists the component numeric location. This upper table shows model specific components. The lower table shows the Location #, OEM part number, value or generic #, description, CBA coordinates, and alternate part numbers.

Note: This product does not use the conventional component identification adopted by many U. S. & Japanese manufactures.

This matrix will allow you to determine the OEM & generic part number of the components by finding the location number then locate the appropriate model in the Model/Chassis coulombs.

Loc:	TP2781 EMD770	TS3258 EMD780	TP3281 EMD782	TS3658 EMD790	TP3681 EMD792
5630	3128 138 20623	3128 138 20623	3128 138 20623	2422 531 02297	2422 531 02297
7088	4835 209 88613	4835 209 88612	4835 209 88613	4835 209 88614	4835 209 88613
7150	9352 620 26112	9352 620 25112	9352 620 27112	9352 620 27112	9352 620 27112
7620	9340 011 30127	9340 153 80127	9340 153 80127	9340 182 20127	9340 182 20127
7700	4835 209 88531	9339 229 40682	9339 229 40682	9339 229 40682	9339 229 40682
7830	9352 184 10112	9352 184 10112	9352 184 10112	9352 561 40112	9352 561 40112
7902	9322 116 20682	9322 116 20682	9322 116 20682	9322 116 20682	9322 116 20682
7907	9322 116 22687	9322 116 22687	9322 116 22687	9322 116 22687	9322 116 22687
CRT	9301 787 60472	9301 795 00428	9301 795 00428	9322 123 55682	9322 123 55682
Loc:	Part number	Value	Description	Coordinates	Alternate p/n
1125	2422 542 90049		tuner	G/H-1	
1906	2422 086 10419	1.6A	fuse, special	E-4	
3162	2306 204 03338	3.3 ohm 1/3w	resistor, met.film	F-2	
3331	4835 111 37445	47K OHM 1/10W	smd resistor	E-2	
3610	4835 116 57706	22K OHM 1/2W	resistor	H-5	
3660,1	4835 110 27012	1.0 OHM 1/2W	resistor	G-3	
3663,4	4835 110 27012	1.0 OHM 1/2W	resistor	H-3	
5630	2422 531 02297		flyback (L.O.T.)	G-4	
5630	3128 138 20623		flyback (L.O.T.)	G-4	
6328	4835 130 37905	BAS216	diode	E-2	



Loc:	TP2781 EMD770	TS3258 EMD780	TP3281 EMD782	TS3658 EMD790	TP3681 EMD792
6917	9939 104 40112	BYV28-200/20	diode	D-4	
7000	9352 617 55112	P83C770AAR/03	IC, micro	D-2	4835 310 57463
7088	4835 209 88612	ST24W1686	IC, memory	D-1	
7088	4835 209 88613	ST24W1686	IC, memory	D-1	
7088	4835 209 88614	ST24W1686	IC, memory	D-1	
7150	9352 620 26112	TDA8846N2/S1	IC, jungle	F-1	
7150	9352 620 25112	TDA8844N2/S1	IC, jungle	F-1	
7150	9352 620 27112	TDA8847N2/S1	IC, jungle	F-1	
7325	5322 130 60508	BC857B	transistor	E-2	
7620	9340 182 20127	BU2520DF	transistor, H.O.		
7620	9340 011 30127	BU2508AF	transistor, H.O.		
7620	9340 153 80127	BU2520AF	transistor, H.O.		
7629	4835 130 47409	BC557B	transistor	H-4	
7700	9339 229 40682	TDA8172	IC, vertical	G-2	RCA 215531
7700	4835 209 88531	TDA9302H	IC, vertical	G-2	
7830	9352 184 10112	TDA6107Q/N1	IC, rgb amp	CRT-PCB	
7830	9352 561 40112	TDA6108	IC, rgb amp	CRT-PCB	
7902	9322 116 18682	STR-F6656	IC, pwr switcher	E-5	
7902	9322 116 20682	STR-F6626	IC, pwr switcher	E-5	
7907	9322 116 22687	TDA8137	IC, dual regulator	E-3	
CRT	9301 787 60472	A68AJB82X	CRT, 27"		
CRT	9301 795 00428	A80ECK272X56	CRT, 32"		4835 131 27165
CRT	9322 123 55682	A90AHH50X07	CRT, 36"		4835 131 27166

Thanks to Craig Bell @ 586 for his hard work on this matrix.