

ABNORMAL TEST RESULT

OF MODEL DPF1000

1. Did Cheese Cloth or Paper Glow?

No.

2. Did Ground Fuse Open?

No.

3. Dielectric breakdown?

No.

4. Other Results?

See the following pages .

( FMEA : 2/27 ~ 25/27 )  
( Abnormal Test Result: 26/27 ~ 27/27 )

There was no emission of flame, molten metal, ignition of cheesecloth, dielectric breakdown, opening of the ground fuse, other indication of a shock or fire hazard.

F M E A

Component	Mode	Comment	Output Voltage (V)
C11	Open	Normal operation.	
	Short	See 26 Page.	
C12	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	
C13	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	
C14	Open	Normal operation.	
	Short	See 26 Page.	
C15	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	
C18	Open	Normal operation.	
	Short	See 26 Page.	
C20	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	
C21	Open	Normal operation.	
	Short	No Hazard.	
C22	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	
C24	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	
C25	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	
C26	Open	Normal operation.	
	Short	No Hazard.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
C59	Open	Normal operation.	
	Short	No Hazard.	
C101	Open	Normal operation.	
	Short	Normal operation.	
C102	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	
C103	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	
C104	Open	Normal operation.	
	Short	Normal operation.	
C106	Open	Normal operation.	
	Short	Normal operation.	
C201	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	
C202	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	
C203	Open	No Hazard.	
	Short	Output voltage decreased. No hazard.	
C204	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	
C205	Open	External Fuse opened, No hazard.	
	Short	Output voltage decreased. No hazard.	
C206	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C207	Open	No Hazard.	
	Short	External Fuse opened, No hazard.	
C208	Open	Normal operation.	
	Short	Normal operation.	
C209	Open	Normal operation.	
	Short	Normal operation.	
C210	Open	Normal operation.	
	Short	Normal operation.	
C211	Open	Normal operation.	
	Short	See 26 Page.	
C212	Open	No Hazard.	
	Short	No Hazard.	
C213	Open	Normal operation.	
	Short	Normal operation.	
C214	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	
C215	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	
C301	Open	No Hazard.	
	Short	No Hazard.	
C302	Open	No Hazard.	
	Short	No Hazard.	
C303	Open	Normal operation.	
	Short	No Hazard.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
C304	Open	Normal operation.	
	Short	No Hazard.	
C305	Open	Normal operation.	
	Short	No Hazard.	
C306	Open	Normal operation.	
	Short	No Hazard.	
C402	Open	Normal operation.	
	Short	Normal operation.	
C403	Open	Normal operation.	
	Short	Normal operation.	
C501	Open	Normal operation.	
	Short	No Hazard.	
C502	Open	Normal operation.	
	Short	No Hazard.	
C603	Open	Normal operation.	
	Short	No Hazard.	
C604	Open	Normal operation.	
	Short	No Hazard.	
D11	Open	Normal operation.	
	Short	See 26 Page.	
D12	Open	Normal operation.	
	Short	Normal operation.	
D101	Open	Normal operation.	
	Short	Normal operation.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
D102	Open	Output voltage decreased. No hazard.	
	Short	Normal operation.	
D103	Open	Normal operation.	
	Short	Normal operation.	
D104	Open	Normal operation.	
	Short	Normal operation.	
D105	Open	Normal operation.	
	Short	Normal operation.	
D201	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	
D202	Open	Normal operation.	
	Short	Normal operation.	
D203	Open	Normal operation.	
	Short	Normal operation.	
D301	Open	No Hazard.	
	Short	No Hazard.	
D302	Open	No Hazard.	
	Short	No Hazard.	
D303	Open	No Hazard.	
	Short	No Hazard.	
D401	Open	Normal operation.	
	Short	Normal operation.	
D402	Open	Normal operation.	
	Short	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
D501	Open		Normal operation.	
	Short		Normal operation.	
D603	Open		No Hazard.	
	Short		Normal operation.	
D604	Open		No Hazard.	
	Short		Normal operation.	
IC201	Open	1	Normal operation.	
		2	Output voltage decreased. No hazard.	
		3	Normal operation.	
		4	Normal operation.	
		5	No Hazard.	
		6	No Hazard.	
		7	No Hazard.	
		8	Normal operation.	
		9	Normal operation.	
		10	Normal operation.	
		11	Output voltage decreased. No hazard.	
		12	Normal operation.	
		13	Output voltage decreased. No hazard.	
		14	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	Output voltage decreased. No hazard.	
		3-4	Output voltage decreased. No hazard.	
		4-5	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Short	5-6	No Hazard.	
		6-7	No Hazard.	
		8-9	Normal operation.	
		9-10	Normal operation.	
		10-11	Normal operation.	
		11-12	Normal operation.	
		12-13	Output voltage decreased. No hazard.	
		13-14	Normal operation.	
IC202	Open	1	Normal operation.	
		2	Normal operation.	
		3	Output voltage decreased. No hazard.	
		4	Normal operation.	
		5	No Hazard.	
		6	Output voltage increased. No hazard.	
		7	External Fuse opened, No hazard.	
		8	Output voltage decreased. No hazard.	
		9	Output voltage decreased. No hazard.	
		10	Output voltage decreased. No hazard.	
		11	Normal operation.	
		12	Output voltage decreased. No hazard.	
		13	Normal operation.	
		14	Normal operation.	
		15	External Fuse opened, No hazard.	
		16	External Fuse opened, No hazard.	



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC202	Short	1-2	Output voltage decreased. No hazard.	
		2-3	No Hazard.	
		3-4	Output voltage decreased. No hazard.	
		4-5	Output voltage decreased. No hazard.	
		5-6	Output voltage decreased. No hazard.	
		6-7	Output voltage increased. No hazard.	
		7-8	Output voltage decreased. No hazard.	
		9-10	Normal operation.	
		10-11	Normal operation.	
		11-12	Normal operation.	
		12-13	Normal operation.	
		13-14	Output voltage decreased. No hazard.	
		14-15	External Fuse opened, No hazard.	
		15-16	Output voltage increased. No hazard.	
IC501	Open	K	Output voltage decreased. No hazard.	
		A	Output voltage decreased. No hazard.	
		R	Output voltage decreased. No hazard.	
	Short	A-K	Output voltage decreased. No hazard.	
		K-R	Output voltage decreased. No hazard.	
		R-A	Output voltage decreased. No hazard.	
L11	Open	1	Output voltage decreased. No hazard.	
		2	Output voltage decreased. No hazard.	
		3	Normal operation.	
		4	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
L11	Short	1-2	External Fuse opened, No hazard.	
		3-4	No Hazard.	
L12	Open		See 26 Page.	
	Short		Normal operation.	
L13	Open		See 26 Page.	
	Short		Normal operation.	
L14	Open		See 26 Page.	
	Short		Normal operation.	
PC501	Open	LED. A, K	No Hazard.	
		SCR. K	No Hazard.	
		SCR. A	No Hazard.	
		SCR. G	Normal operation.	
	Short	LED. A-K	No Hazard.	
		SCR. A-K	Normal operation.	
		SCR. A-G	No Hazard.	
		SCR. K-G	No Hazard.	
SCR11	Open	K	No Hazard.	
		A	No Hazard.	
		G	No Hazard.	
	Short	K-A	Normal operation.	
		A-G	Normal operation.	
		K-G	No Hazard.	
SCR401	Open	K	Normal operation.	
		A	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
SCR401	Open	G	Output voltage decreased. No hazard.	
	Short	K-A	Normal operation.	
		A-G	Output voltage decreased. No hazard.	
		K-G	Normal operation.	
SS11	Open		Output voltage decreased. No hazard.	
	Short		External Fuse opened, No hazard.	
SS12	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	
SS13	Open		External Fuse opened, No hazard.	
	Short		External Fuse opened, No hazard.	
SS14	Open	K1	External Fuse opened, No hazard.	
		K2	No Hazard.	
		A	External Fuse opened, No hazard.	
	Short	K1-K2	No Hazard.	
		K1-A	No Hazard.	
		K2-A	No Hazard.	
T11	Open	1, 2	External Fuse opened, No hazard.	
		4, 5	External Fuse opened, No hazard.	
		7	No Hazard.	
		9	No Hazard.	
	Short	1, 2-4, 5	No Hazard.	
		7-9	No Hazard.	
T12	Open	1, 2	Output voltage decreased. No hazard.	
		4, 5	Output voltage decreased. No hazard.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
T12	Open	7	External Fuse opened, No hazard.	
		9	External Fuse opened, No hazard.	
	Short	1, 2-4, 5	External Fuse opened, No hazard.	
		7-9	External Fuse opened, No hazard.	
TH11	Open		Output voltage decreased. No hazard.	
	Short		Output voltage decreased. No hazard.	
TR11	Open	C	Normal operation.	
		E	External Fuse opened, No hazard.	
		B	External Fuse opened, No hazard.	
	Short	C-E	Output voltage decreased. No hazard.	
		E-B	Output voltage decreased. No hazard.	
		B-C	Output voltage decreased. No hazard.	
TR12	Open	D	See 26 Page.	
		S	See 26 Page.	
		G	See 26 Page.	
	Short	D-S	See 26 Page.	
		S-G	See 26 Page.	
		G-D	See 26 Page.	
TR13	Open	D	See 26 Page.	
		S	See 26 Page.	
		G	See 26 Page.	
	Short	D-S	See 26 Page.	
		S-G	See 26 Page.	
		G-D	See 26 Page.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR14	Open	D	See 26 Page.	
		S	See 26 Page.	
		G	See 26 Page.	
	Short	D-S	See 26 Page.	
		S-G	See 27 Page.	
		G-D	See 27 Page.	
TR16	Open	D	Output voltage decreased. No hazard.	
		S	Output voltage decreased. No hazard.	
		G	Output voltage decreased. No hazard.	
	Short	D-S	Output voltage decreased. No hazard.	
		S-G	Output voltage decreased. No hazard.	
		G-D	Output voltage decreased. No hazard.	
TR17	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Output voltage decreased. No hazard.	
		E-B	Normal operation.	
		B-C	Output voltage decreased. No hazard.	
TR101	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR102	Open	C	Output voltage decreased. No hazard.	
		E	Output voltage decreased. No hazard.	
		B	Output voltage decreased. No hazard.	
	Short	C-E	Normal operation.	
		E-B	Output voltage decreased. No hazard.	
		B-C	Normal operation.	
TR103	Open	C	Output voltage decreased. No hazard.	
		E	Output voltage decreased. No hazard.	
		B	Output voltage decreased. No hazard.	
	Short	C-E	Normal operation.	
		E-B	Output voltage decreased. No hazard.	
		B-C	Normal operation.	
TR201	Open	C	Normal operation.	
		E	Output voltage decreased. No hazard.	
		B	Normal operation.	
	Short	C-E	External Fuse opened, No hazard.	
		E-B	Output voltage decreased. No hazard.	
		B-C	External Fuse opened, No hazard.	
TR202	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR203	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR204	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR205	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Output voltage decreased. No hazard.	
		E-B	Normal operation.	
		B-C	Output voltage decreased. No hazard.	
TR301	Open	C	No Hazard.	
		E	No Hazard.	
		B	No Hazard.	
	Short	C-E	No Hazard.	
		E-B	No Hazard.	
		B-C	No Hazard.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR302	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR404	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Output voltage decreased. No hazard.	
		E-B	Normal operation.	
		B-C	Output voltage decreased. No hazard.	
TR501	Open	C	No Hazard.	
		E	No Hazard.	
		B	No Hazard.	
	Short	C-E	Normal operation.	
		E-B	No Hazard.	
		B-C	Normal operation.	
TR502	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	
		E-B	Normal operation.	
		B-C	No Hazard.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR503	Open	C	No Hazard.	
		E	No Hazard.	
		B	No Hazard.	
	Short	C-E	Normal operation.	
		E-B	No Hazard.	
		B-C	Normal operation.	
TR504	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Output voltage decreased. No hazard.	
		E-B	Normal operation.	
		B-C	Output voltage decreased. No hazard.	
TR604	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	
		E-B	Normal operation.	
		B-C	No Hazard.	
TR605	Open	C	No Hazard.	
		E	No Hazard.	
		B	No Hazard.	
	Short	C-E	Normal operation.	
		E-B	No Hazard.	
		B-C	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR606	Open	C	No Hazard.	
		E	No Hazard.	
		B	No Hazard.	
	Short	C-E	No Hazard.	
		E-B	No Hazard.	
		B-C	No Hazard.	
VR201	Open	brush	Output voltage decreased. No hazard.	
			Output voltage decreased. No hazard.	
	Short		Output voltage increased. No hazard.	
ZD11	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	
ZD12	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	
ZD101	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	
ZD102	Open		Output voltage decreased. No hazard.	
	Short		Normal operation.	
ZD201	Open		Normal operation.	
	Short		Normal operation.	
ZD202	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	
ZD301	Open		Output voltage decreased. No hazard.	
	Short		Normal operation.	
ZD302	Open		Normal operation.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
ZD302	Short	Output voltage decreased. No hazard.	
ZD303	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	
ZD402	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	
ZD501	Open	Normal operation.	
	Short	Normal operation.	
ZD503	Open	No Hazard.	
	Short	Normal operation.	
ZD603	Open	No Hazard.	
	Short	No Hazard.	
R11	Open	Normal operation.	
R12	Open	Normal operation.	
R13	Open	Normal operation.	
R14	Open	See 27 Page.	
R15	Open	See 27 Page.	
R16	Open	See 27 Page.	
R18	Open	Normal operation.	
R19	Open	Normal operation.	
R20	Open	Normal operation.	
R21	Open	Output voltage decreased. No hazard.	
R25	Open	Normal operation.	
R26	Open	Output voltage decreased. No hazard.	
R27	Open	Output voltage decreased. No hazard.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
R28	Open	Normal operation.	
R51	Open	No Hazard.	
R52	Open	Normal operation.	
R101	Open	Output voltage decreased. No hazard.	
R102	Open	Output voltage decreased. No hazard.	
R103	Open	Output voltage decreased. No hazard.	
R104	Open	Output voltage decreased. No hazard.	
R105	Open	Output voltage decreased. No hazard.	
R106	Open	Output voltage decreased. No hazard.	
R107	Open	No Hazard.	
R108	Open	Normal operation.	
R109	Open	No Hazard.	
R110	Open	Output voltage decreased. No hazard.	
R111	Open	Normal operation.	
R112	Open	Normal operation.	
R113	Open	Normal operation.	
R114	Open	Normal operation.	
R115	Open	Output voltage decreased. No hazard.	
R117	Open	Output voltage decreased. No hazard.	
R118	Open	Output voltage decreased. No hazard.	
R121	Open	Output voltage decreased. No hazard.	
R122	Open	Normal operation.	
R123	Open	Normal operation.	
R124	Open	Output voltage decreased. No hazard.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
R125	Open	Normal operation.	
R201	Open	Output voltage decreased. No hazard.	
R202	Open	No Hazard.	
R203	Open	Normal operation.	
R204	Open	Normal operation.	
R205	Open	Output voltage decreased. No hazard.	
R206	Open	Output voltage decreased. No hazard.	
R207	Open	Normal operation.	
R208	Open	Output voltage decreased. No hazard.	
R209	Open	Normal operation.	
R210	Open	Normal operation.	
R211	Open	Normal operation.	
R212	Open	Output voltage increased. No hazard.	
R213	Open	Normal operation.	
R214	Open	External Fuse opened, No hazard.	
R215	Open	No Hazard.	
R217	Open	Normal operation.	
R218	Open	Normal operation.	
R219	Open	Normal operation.	
R220	Open	Normal operation.	
R221	Open	Normal operation.	
R222	Open	Normal operation.	
R223	Open	Output voltage increased. No hazard.	
R224	Open	Output voltage increased. No hazard.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
R225	Open	Output voltage increased. No hazard.	
R226	Open	Output voltage decreased. No hazard.	
R227	Open	Output voltage decreased. No hazard.	
R228	Open	Normal operation.	
R229	Open	Normal operation.	
R230	Open	Normal operation.	
R231	Open	Output voltage decreased. No hazard.	
R232	Open	Normal operation.	
R233	Open	Normal operation.	
R234	Open	Normal operation.	
R235	Open	Output voltage decreased. No hazard.	
R236	Open	Normal operation.	
R237	Open	Output voltage decreased. No hazard.	
R238	Open	Normal operation.	
R239	Open	Normal operation.	
R240	Open	Normal operation.	
R301	Open	Normal operation.	
R302	Open	Normal operation.	
R303	Open	No Hazard.	
R304	Open	No Hazard.	
R305	Open	No Hazard.	
R306	Open	Output voltage decreased. No hazard.	
R307	Open	Output voltage decreased. No hazard.	
R308	Open	Output voltage decreased. No hazard.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
R309	Open	Normal operation.	
R310	Open	Normal operation.	
R311	Open	Normal operation.	
R312	Open	Normal operation.	
R313	Open	Normal operation.	
R314	Open	Normal operation.	
R315	Open	Normal operation.	
R401	Open	Output voltage decreased. No hazard.	
R402	Open	Normal operation.	
R403	Open	Normal operation.	
R404	Open	Normal operation.	
R407	Open	Output voltage decreased. No hazard.	
R408	Open	Normal operation.	
R410	Open	Normal operation.	
R411	Open	No Hazard.	
R412	Open	No Hazard.	
R413	Open	No Hazard.	
R414	Open	Normal operation.	
R416	Open	Output voltage decreased. No hazard.	
R417	Open	Output voltage decreased. No hazard.	
R418	Open	Normal operation.	
R419	Open	Normal operation.	
R420	Open	Normal operation.	
R501	Open	Output voltage decreased. No hazard.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R502	Open	Output voltage decreased. No hazard.	
R503	Open	Output voltage decreased. No hazard.	
R505	Open	No Hazard.	
R506	Open	No Hazard.	
R507	Open	Normal operation.	
R508	Open	Normal operation.	
R509	Open	Normal operation.	
R510	Open	No Hazard.	
R511	Open	Normal operation.	
R512	Open	Normal operation.	
R513	Open	No Hazard.	
R514	Open	No Hazard.	
R515	Open	Normal operation.	
R516	Open	No Hazard.	
R517	Open	No Hazard.	
R518	Open	Normal operation.	
R519	Open	No Hazard.	
R520	Open	Normal operation.	
R521	Open	Normal operation.	
R522	Open	Output voltage decreased. No hazard.	
R613	Open	No Hazard.	
R614	Open	No Hazard.	
R615	Open	No Hazard.	
R616	Open	No Hazard.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R617	Open	No Hazard.	
R618	Open	Normal operation.	
R619	Open	Normal operation.	
R620	Open	Normal operation.	
R621	Open	No Hazard.	

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C11	Short		External Fuse opened, No hazard.	
C14	Short		Output voltage decreased. No hazard.	
C18	Short		External Fuse opened, No hazard.	
C211	Short		Output voltage decreased. No hazard.	
D11	Short		No Hazard.	
L12	Open		External Fuse opened, No hazard.	
L13	Open		External Fuse opened, No hazard.	
L14	Open		External Fuse opened, No hazard.	
TR12	Open	D	Output voltage decreased. No hazard.	
		S	Output voltage decreased. No hazard.	
		G	External Fuse opened, No hazard.	
	Short	D-S	External Fuse opened, No hazard.	
		S-G	Output voltage decreased. No hazard.	
		G-D	External Fuse opened, No hazard.	
TR13	Open	D	Output voltage decreased. No hazard.	
		S	Output voltage decreased. No hazard.	
		G	External Fuse opened, No hazard.	
	Short	D-S	External Fuse opened, No hazard.	
		S-G	Output voltage decreased. No hazard.	
		G-D	External Fuse opened, No hazard.	
TR14	Open	D	Output voltage decreased. No hazard.	
		S	Output voltage decreased. No hazard.	
		G	External Fuse opened, No hazard.	
	Short	D-S	External Fuse opened, No hazard.	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR14	Short	S-G	Output voltage decreased. No hazard.	
		G-D	External Fuse opened, No hazard.	
R14	Open		External Fuse opened, No hazard.	
R15	Open		External Fuse opened, No hazard.	
R16	Open		External Fuse opened, No hazard.	