

## ABNORMAL TEST RESULT

OF MODEL PJA1000F-24

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 : 2/40 ~ 36/40)

( Abnormal Test Result: 37/40 ~ 40/40)

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)
C101	Open	Normal operation.	AVR1:*
	Short	F101 opened, No hazard.	AVR1:0
C102	Open	Normal operation.	AVR1:*
	Short	F101 opened, No hazard.	AVR1:0
C105	Open	Normal operation.	AVR1:*
	Short	F101 opened, No hazard.	AVR1:0
C106	Open	No Hazard.	AVR1:*
	Short	F101 opened, No hazard.	AVR1:0
C107	Open	No Hazard.	AVR1:*
	Short	F101 opened, No hazard.	AVR1:0
C108	Open	No Hazard.	AVR1:*
	Short	F101 opened, No hazard.	AVR1:0
C109	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C110	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C112	Open	No Hazard.	AVR1:0
	Short	See 37 Page.	
C114	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C115	Open	Normal operation.	AVR1:*
	Short	R180, R181 opened, No hazard.	AVR1:0
C116	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C117	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C118	Open	Normal operation.	AVR1:*
	Short	R180, R181 opened, No hazard.	AVR1:0
C119	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	F101 opened, No hazard.	AVR1:0
C120	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C122	Open	No Hazard.	AVR1:*
	Short	R180, R181 opened, No hazard.	AVR1:0
C123	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C125	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C130	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C131	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C132	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C134	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C135	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C136	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C137	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C139	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C140	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C141	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C142	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C143	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C144	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C170	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C171	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C172	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C173	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
C180	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C181	Open	R180, R181 opened, No hazard.	AVR1:0
	Short	R180, R181 opened, No hazard.	AVR1:0
C182	Open	R180, R181 opened, No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C183	Open	Normal operation.	AVR1:*
	Short	R180, R181 opened, No hazard.	AVR1:0
C201	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C202	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C203	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C204	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C205	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C206	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C207	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C208	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C209	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C211	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C213	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C214	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
C215	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C250	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C251	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C252	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C253	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C270	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C271	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C272	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C273	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C275	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C276	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C501	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C502	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C503	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C504	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C507	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C508	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C511	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C512	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C513	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C514	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C515	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C516	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C517	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C518	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C519	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C520	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C523	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C524	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C582 (Only -48)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C591 (Only -24)	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C592 (Only -24)	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
C593 (Only -24)	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C594 (Only -24)	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C595	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C596	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C597 (Only -48)	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C598 (Only -48)	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C601	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C602 (Only -24)	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C604 (Only -48)	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C605 (Only -48)	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C606	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C607	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
C608	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C701	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C702	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C704	Open	No hazard.	AVR1:0
	Short	See 37 Page.	
C705	Open	No hazard.	AVR1:0
	Short	See 37 Page.	
C706	Open	No hazard.	AVR1:0
	Short	See 37 Page.	
C707	Open	No hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C708	Open	No hazard.	AVR1:0
	Short	See 37 Page.	
C710	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C711	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D101	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D102	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
D103	Open	See 37 Page.	
	Short	Normal operation.	AVR1:*
D104	Open	See 37 Page.	
	Short	Normal operation.	AVR1:*
D105	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D106	Open	Normal operation.	AVR1:*
	Short	R180, R181 opened, No hazard.	AVR1:0
D107	Open	Normal operation.	AVR1:*
	Short	R180, R181 opened, No hazard.	AVR1:0
D108	Open	Normal operation.	AVR1:*
	Short	R180, R181 opened, No hazard.	AVR1:0
D109	Open	R180, R181 opened, No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D110	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
D111	Open	F101 opened, No hazard.	AVR1:0
	Short	F101 opened, No hazard.	AVR1:0
D112	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D114	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D170	Open	No Hazard.	AVR1:0
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
D171	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D180	Open	R180, R181 opened, No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D181	Open	R180, R181 opened, No hazard.	AVR1:0
	Short	R180, R181 opened, No hazard.	AVR1:0
D201	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
D202	Open	Normal operation.	AVR1:*
	Short	See 37 Page.	
D203	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D204	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D205	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D206	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D207	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
D208	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D211	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
D250	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
D251	Open		See 37 Page.	
	Short		Normal operation.	AVR1:*
D252	Open		Normal operation.	AVR1:*
	Short		See 38 Page.	
D270	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
D271	Open		See 38 Page.	
	Short		Normal operation.	AVR1:*
D272	Open		Normal operation.	AVR1:*
	Short		See 38 Page.	
D701	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
D703	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
FAN701	Open	1	See 38 Page.	
		2	See 38 Page.	
	Short	1-2	No Hazard.	AVR1:0
FAN702	Open	1	See 38 Page.	
		2	See 38 Page.	
	Short	1-2	No Hazard.	AVR1:0
IC101	Open	1	R180, R181 opened, No hazard.	AVR1:0
		2	R180, R181 opened, No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC101	Open	3	R180, R181 opened, No hazard.	AVR1:0
		4	R180, R181 opened, No hazard.	AVR1:0
		5	R180, R181 opened, No hazard.	AVR1:0
		6	R180, R181 opened, No hazard.	AVR1:0
		7	R180, R181 opened, No hazard.	AVR1:0
		8	R180, R181 opened, No hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	R180, R181 opened, No hazard.	AVR1:0
		3-4	R180, R181 opened, No hazard.	AVR1:0
		5-6	R180, R181 opened, No hazard.	AVR1:0
		6-7	R180, R181 opened, No hazard.	AVR1:0
		7-8	F101 opened, No hazard.	AVR1:0
IC102	Open	2	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	No Hazard.	AVR1:0
	Short	5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
IC201	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	6	No Hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
		5-6	F101 opened, No hazard.	AVR1:0
		6-7	Normal operation.	AVR1:*
		7-8	No Hazard.	AVR1:0
IC501	Open	K	Normal operation.	AVR1:*
		A	Normal operation.	AVR1:*
		R	Normal operation.	AVR1:*
	Short	A-K	No Hazard.	AVR1:0
		K-R	No Hazard.	AVR1:0
		R-A	Normal operation.	AVR1:*
IC601 (Only -48)	Open	K	No Hazard.	AVR1:0
		A	No Hazard.	AVR1:0
		R	No Hazard.	AVR1:0
	Short	A-K	Output voltage decreased. No hazard.	AVR1:decreased
		K-R	Output voltage decreased. No hazard.	AVR1:decreased
		R-A	No Hazard.	AVR1:0
IC701	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC701	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
J201	Open		No Hazard.	AVR1:0
J501	Open		Normal operation.	AVR1:*
J601 (Only -24)	Open		No Hazard.	AVR1:0
J602	Open		No Hazard.	AVR1:0
J603	Open		No Hazard.	AVR1:0
J605	Open		No Hazard.	AVR1:0
L101	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
	Short	1-2	F101 opened, No hazard.	AVR1:0
		2-3	Normal operation.	AVR1:*
		3-4	F101 opened, No hazard.	AVR1:0
L102	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
	Short	1-2	F101 opened, No hazard.	AVR1:0
		2-3	Normal operation.	AVR1:*
		3-4	F101 opened, No hazard.	AVR1:0
L103	Open	1	R180, R181 opened, No hazard.	AVR1:0
		2	R180, R181 opened, No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
L103	Open	3, 4, 5	No Hazard.	AVR1:0
		7, 8, 9	No Hazard.	AVR1:0
	Short	1-2	See 38 Page.	
		2-3, 4, 5	See 38 Page.	
L104	Open		See 38 Page.	
	Short		Normal operation.	AVR1:*
L113	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
L114	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
L115	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
L205	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
L517	Open	A	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4 only 24	No Hazard.	AVR1:0
		13 except	No Hazard.	AVR1:0
	Short	3-4	See 38 Page.	
L701	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
LED501	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
PC201	Open	A, K	No Hazard.	AVR1:0
		C, E	No Hazard.	AVR1:0
	Short	A-K	No Hazard.	AVR1:0
		C-E	No Hazard.	AVR1:0
PC202	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No Hazard.	AVR1:0
PTH201	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
PTH202	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
R101	Open		Normal operation.	AVR1:*
R102	Open		Normal operation.	AVR1:*
R103	Open		Normal operation.	AVR1:*
R104	Open		Normal operation.	AVR1:*
R105	Open		Normal operation.	AVR1:*
R106	Open		Normal operation.	AVR1:*
R107	Open		Normal operation.	AVR1:*
R108	Open		Normal operation.	AVR1:*
R109	Open		Normal operation.	AVR1:*
R110	Open		No Hazard.	AVR1:0
R111	Open		No Hazard.	AVR1:0
R112	Open		No Hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
R113	Open	Normal operation.	AVR1:*
R114	Open	No Hazard.	AVR1:0
R115	Open	No Hazard.	AVR1:0
R116	Open	R180, R181 opened, No hazard.	AVR1:0
R117	Open	R180, R181 opened, No hazard.	AVR1:0
R118	Open	R180, R181 opened, No hazard.	AVR1:0
R119	Open	R180, R181 opened, No hazard.	AVR1:0
R120	Open	R180, R181 opened, No hazard.	AVR1:0
R121	Open	R180, R181 opened, No hazard.	AVR1:0
R122	Open	See 38 Page.	
R123	Open	Normal operation.	AVR1:*
R124	Open	Normal operation.	AVR1:*
R125	Open	Normal operation.	AVR1:*
R126	Open	Normal operation.	AVR1:*
R127	Open	Normal operation.	AVR1:*
R128	Open	Normal operation.	AVR1:*
R129	Open	Output voltage decreased. No hazard.	AVR1:decreased
R130	Open	R180, R181 opened, No hazard.	AVR1:0
R131	Open	R180, R181 opened, No hazard.	AVR1:0
R132	Open	Normal operation.	AVR1:*
R133	Open	R180, R181 opened, No hazard.	AVR1:0
R134	Open	Normal operation.	AVR1:*
R135	Open	Normal operation.	AVR1:*
R138	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R139	Open	Normal operation.	AVR1:*
R140	Open	Normal operation.	AVR1:*
R141	Open	Normal operation.	AVR1:*
R142	Open	Normal operation.	AVR1:*
R143	Open	Normal operation.	AVR1:*
R144	Open	Normal operation.	AVR1:*
R145	Open	Normal operation.	AVR1:*
R146	Open	R180, R181 opened, No hazard.	AVR1:0
R147	Open	R180, R181 opened, No hazard.	AVR1:0
R148	Open	R180, R181 opened, No hazard.	AVR1:0
R149	Open	R180, R181 opened, No hazard.	AVR1:0
R150	Open	R180, R181 opened, No hazard.	AVR1:0
R151	Open	R180, R181 opened, No hazard.	AVR1:0
R152	Open	See 38 Page.	
R153	Open	See 38 Page.	
R156	Open	Normal operation.	AVR1:*
R157	Open	Normal operation.	AVR1:*
R158	Open	Normal operation.	AVR1:*
R159	Open	Normal operation.	AVR1:*
R160	Open	Normal operation.	AVR1:*
R161	Open	Normal operation.	AVR1:*
R162	Open	Normal operation.	AVR1:*
R163	Open	Normal operation.	AVR1:*
R171	Open	No Hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
R172	Open	No Hazard.	AVR1:0
R173	Open	No Hazard.	AVR1:0
R174	Open	No Hazard.	AVR1:0
R175	Open	Normal operation.	AVR1:*
R176	Open	No Hazard.	AVR1:0
R177	Open	Normal operation.	AVR1:*
R180	Open	Normal operation.	AVR1:*
R181	Open	Normal operation.	AVR1:*
R182	Open	Normal operation.	AVR1:*
R183	Open	Normal operation.	AVR1:*
R184	Open	Normal operation.	AVR1:*
R185	Open	Normal operation.	AVR1:*
R186	Open	R180, R181 opened, No hazard.	AVR1:0
R187	Open	R180, R181 opened, No hazard.	AVR1:0
R188	Open	R180, R181 opened, No hazard.	AVR1:0
R189	Open	R180, R181 opened, No hazard.	AVR1:0
R201	Open	Normal operation.	AVR1:*
R202	Open	Normal operation.	AVR1:*
R203	Open	Normal operation.	AVR1:*
R204	Open	Normal operation.	AVR1:*
R205	Open	Normal operation.	AVR1:*
R206	Open	Normal operation.	AVR1:*
R207	Open	Normal operation.	AVR1:*
R208	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R209	Open	Normal operation.	AVR1:*
R214	Open	Normal operation.	AVR1:*
R215	Open	Normal operation.	AVR1:*
R216	Open	Normal operation.	AVR1:*
R219	Open	Normal operation.	AVR1:*
R220	Open	Normal operation.	AVR1:*
R223	Open	Normal operation.	AVR1:*
R226	Open	No Hazard.	AVR1:0
R227	Open	No Hazard.	AVR1:0
R228	Open	Normal operation.	AVR1:*
R230	Open	Output voltage decreased. No hazard.	AVR1:decreased
R231	Open	Normal operation.	AVR1:*
R232	Open	Normal operation.	AVR1:*
R234	Open	No Hazard.	AVR1:0
R235	Open	No Hazard.	AVR1:0
R236	Open	Normal operation.	AVR1:*
R237	Open	Normal operation.	AVR1:*
R238	Open	Normal operation.	AVR1:*
R239	Open	Normal operation.	AVR1:*
R242	Open	See 38 Page.	
R243	Open	See 38 Page.	
R246	Open	Normal operation.	AVR1:*
R248	Open	Normal operation.	AVR1:*
R249	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R250	Open	See 38 Page.	
R251	Open	No Hazard.	AVR1:0
R252	Open	No Hazard.	AVR1:0
R253	Open	See 38 Page.	
R254	Open	See 38 Page.	
R255	Open	Normal operation.	AVR1:*
R257	Open	Normal operation.	AVR1:*
R258	Open	Normal operation.	AVR1:*
R259	Open	Normal operation.	AVR1:*
R270	Open	See 38 Page.	
R271	Open	No Hazard.	AVR1:0
R272	Open	No Hazard.	AVR1:0
R273	Open	See 38 Page.	
R274	Open	See 38 Page.	
R275	Open	Normal operation.	AVR1:*
R277	Open	Normal operation.	AVR1:*
R278	Open	Normal operation.	AVR1:*
R279	Open	Normal operation.	AVR1:*
R281	Open	Normal operation.	AVR1:*
R290	Open	Normal operation.	AVR1:*
R291	Open	Normal operation.	AVR1:*
R292	Open	Normal operation.	AVR1:*
R293	Open	Normal operation.	AVR1:*
R294	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R295	Open	Normal operation.	AVR1:*
R296	Open	Normal operation.	AVR1:*
R297	Open	Normal operation.	AVR1:*
R501	Open	Normal operation.	AVR1:*
R502	Open	Normal operation.	AVR1:*
R503	Open	Normal operation.	AVR1:*
R504	Open	Normal operation.	AVR1:*
R505	Open	Normal operation.	AVR1:*
R506	Open	Normal operation.	AVR1:*
R507	Open	Normal operation.	AVR1:*
R508	Open	Normal operation.	AVR1:*
R509	Open	Normal operation.	AVR1:*
R510	Open	Normal operation.	AVR1:*
R511	Open	Normal operation.	AVR1:*
R512	Open	Normal operation.	AVR1:*
R513	Open	Normal operation.	AVR1:*
R514	Open	Normal operation.	AVR1:*
R515	Open	Normal operation.	AVR1:*
R516	Open	Normal operation.	AVR1:*
R517	Open	Normal operation.	AVR1:*
R518	Open	Normal operation.	AVR1:*
R519	Open	Normal operation.	AVR1:*
R520	Open	Normal operation.	AVR1:*
R521	Open	Normal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
R522	Open	Normal operation.	AVR1:*
R523	Open	Normal operation.	AVR1:*
R524	Open	Normal operation.	AVR1:*
R525	Open	Normal operation.	AVR1:*
R526	Open	Normal operation.	AVR1:*
R527	Open	Normal operation.	AVR1:*
R528	Open	Normal operation.	AVR1:*
R529	Open	Normal operation.	AVR1:*
R530	Open	Normal operation.	AVR1:*
R531	Open	Normal operation.	AVR1:*
R532	Open	Normal operation.	AVR1:*
R533	Open	Normal operation.	AVR1:*
R534	Open	Normal operation.	AVR1:*
R535	Open	Normal operation.	AVR1:*
R536	Open	Normal operation.	AVR1:*
R537	Open	Normal operation.	AVR1:*
R538	Open	Normal operation.	AVR1:*
R539	Open	Normal operation.	AVR1:*
R540	Open	Normal operation.	AVR1:*
R541	Open	Normal operation.	AVR1:*
R542	Open	Normal operation.	AVR1:*
R543	Open	Normal operation.	AVR1:*
R544	Open	Normal operation.	AVR1:*
R545	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R546	Open	Normal operation.	AVR1:*
R547	Open	Normal operation.	AVR1:*
R548	Open	Normal operation.	AVR1:*
R549	Open	Normal operation.	AVR1:*
R550	Open	Normal operation.	AVR1:*
R551	Open	Normal operation.	AVR1:*
R552	Open	Normal operation.	AVR1:*
R553	Open	Normal operation.	AVR1:*
R554	Open	Normal operation.	AVR1:*
R555	Open	Normal operation.	AVR1:*
R556	Open	Normal operation.	AVR1:*
R561	Open	Normal operation.	AVR1:*
R562	Open	Normal operation.	AVR1:*
R563	Open	Normal operation.	AVR1:*
R564	Open	Normal operation.	AVR1:*
R565	Open	Normal operation.	AVR1:*
R566	Open	Normal operation.	AVR1:*
R567	Open	Normal operation.	AVR1:*
R568	Open	Normal operation.	AVR1:*
R569	Open	Normal operation.	AVR1:*
R570	Open	Normal operation.	AVR1:*
R571	Open	Normal operation.	AVR1:*
R572	Open	Normal operation.	AVR1:*
R573	Open	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R574	Open	Normal operation.	AVR1:*
R576	Open	Normal operation.	AVR1:*
R577	Open	Normal operation.	AVR1:*
R578	Open	Normal operation.	AVR1:*
R579	Open	Normal operation.	AVR1:*
R580	Open	Normal operation.	AVR1:*
R581	Open	Normal operation.	AVR1:*
R582	Open	Normal operation.	AVR1:*
R583	Open	Normal operation.	AVR1:*
R589	Open	Normal operation.	AVR1:*
R590	Open	Normal operation.	AVR1:*
R591 (Only -24)	Open	Normal operation.	AVR1:*
R592	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
R593	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
R594 (Only -48)	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
R595 (Only -48)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
R596 (Only -48)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
R597 (Only -48)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
R598 (Only -48)	Open	No Hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
R599 (Only -48)	Open	No Hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
R601	Open	Normal operation.	AVR1:*
R602	Open	Normal operation.	AVR1:*
R603	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
R604	Open	Normal operation.	AVR1:*
R605	Open	Normal operation.	AVR1:*
R606	Open	No Hazard.	AVR1:0
	Short	Output voltage decreased. No hazard.	AVR1:decreased
R607	Open	No Hazard.	AVR1:0
	Short	Output voltage decreased. No hazard.	AVR1:decreased
R608	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
R609	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage increased. No hazard.	AVR1:increased
R610	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
R612	Open	No Hazard.	AVR1:0
R701	Open	Normal operation.	AVR1:*
R702	Open	Normal operation.	AVR1:*
R703	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
R704	Open		Normal operation.	AVR1:*
SS101	Open	+	Normal operation.	AVR1:*
		-	Normal operation.	AVR1:*
		AC	Normal operation.	AVR1:*
	Short	+-AC	See 38 Page.	
		--AC	See 38 Page.	
SS102	Open	+	Normal operation.	AVR1:*
		-	Normal operation.	AVR1:*
		AC	Normal operation.	AVR1:*
	Short	+-AC	See 39 Page.	
		--AC	See 39 Page.	
SS103	Open	Cathod	F101 opened, No hazard.	AVR1:0
		Alternativ	Normal operation.	AVR1:*
	Short	C-A	See 39 Page.	
SS501	Open	Cathod	Normal operation.	AVR1:*
		Alternativ	Normal operation.	AVR1:*
	Short	C-A	See 39 Page.	
SS502	Open	Cathod	Normal operation.	AVR1:*
		Alternativ	Normal operation.	AVR1:*
	Short	C-A	See 39 Page.	
SS503	Open	Cathod	Normal operation.	AVR1:*
		Alternati ve	Normal operation.	AVR1:*
	Short	C-A	See 39 Page.	
SS504	Open	Cathod	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
SS504	Open	Alternativ	Normal operation.	AVR1:*
	Short	C-A	See 39 Page.	
SS505 (Only -24)	Open	Cathod	Normal operation.	AVR1:*
		Alternativ	Normal operation.	AVR1:*
	Short	C-A	See 39 Page.	
SS506 (Only -24)	Open	Cathod	Normal operation.	AVR1:*
		Alternativ	Normal operation.	AVR1:*
	Short	C-A	See 39 Page.	
T201	Open	A	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
		C	No Hazard.	AVR1:0
		D	No Hazard.	AVR1:0
		1	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		6, 7	F101 opened, No hazard.	AVR1:0
	Short	A-B	See 39 Page.	
		C-D	See 39 Page.	
T202	Open	1	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		9	No Hazard.	AVR1:0
		10	No Hazard.	AVR1:0
	Short	6-7	No Hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
T202	Short	9-10	No Hazard.	AVR1:0
TR101	Open	D	R180, R181 opened, No hazard.	AVR1:0
		S	R180, R181 opened, No hazard.	AVR1:0
		G	R180, R181 opened, No hazard.	AVR1:0
	Short	D-S	See 39 Page.	
		S-G	Normal operation.	AVR1:*
		G-D	See 39 Page.	
TR102	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	See 39 Page.	
	Short	D-S	See 39 Page.	
		S-G	R180, R181 opened, No hazard.	AVR1:0
		G-D	See 39 Page.	
TR103	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR105	Open	C	R180, R181 opened, No hazard.	AVR1:0
		E	R180, R181 opened, No hazard.	AVR1:0
		B	R180, R181 opened, No hazard.	AVR1:0
	Short	C-E	Normal operation.	AVR1:*
		E-B	R180, R181 opened, No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR105	Short	B-C	Normal operation.	AVR1:*
TR106	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	R180, R181 opened, No hazard.	AVR1:0
		E-B	R180, R181 opened, No hazard.	AVR1:0
		B-C	R180, R181 opened, No hazard.	AVR1:0
TR107	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	R180, R181 opened, No hazard.	AVR1:0
		E-B	R180, R181 opened, No hazard.	AVR1:0
		B-C	R180, R181 opened, No hazard.	AVR1:0
TR170	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0
		B-C	No Hazard.	AVR1:0
TR180	Open	D	R180, R181 opened, No hazard.	AVR1:0
		S	R180, R181 opened, No hazard.	AVR1:0
		G	R180, R181 opened, No hazard.	AVR1:0
	Short	D-S	Normal operation.	AVR1:*
		S-G	R180, R181 opened, No hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
TR180	Short	G-D	See 39 Page.	
TR201	Open	G	See 39 Page.	
	Short	D-S	See 39 Page.	
		G-D	See 39 Page.	
TR202	Open	G	See 39 Page.	
	Short	D-S	See 39 Page.	
		G-D	See 39 Page.	
TR205	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0
TR206	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0
TR207	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
TR207	Short	B-C	F101 opened, No hazard.	AVR1:0
TR208	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	F101 opened, No hazard.	AVR1:0
		B-C	F101 opened, No hazard.	AVR1:0
TR210	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
TR250	Open	C	See 39 Page.	
		E	See 40 Page.	
		B	See 40 Page.	
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR270	Open	C	See 40 Page.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR270	Open	E	See 40 Page.	
		B	See 40 Page.	
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:**
		B-C	Normal operation.	AVR1:**
TR501 (Only -48)	Open	C	Normal operation.	AVR1:**
		E	Normal operation.	AVR1:**
		B	Normal operation.	AVR1:**
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:**
		B-C	No Hazard.	AVR1:0
TRC101	Open	T1	R180, R181 opened, No hazard.	AVR1:0
		T2	R180, R181 opened, No hazard.	AVR1:0
		G	R180, R181 opened, No hazard.	AVR1:0
	Short	T1-T2	Normal operation.	AVR1:**
		T2-G	R180, R181 opened, No hazard.	AVR1:0
VR201	Open	brush	Output voltage decreased. No hazard.	AVR1:decreased
			Output voltage decreased. No hazard.	AVR1:decreased
	Short		Normal operation.	AVR1:**
VR601	Open	brush	Output voltage decreased. No hazard.	AVR1:decreased
			Output voltage decreased. No hazard.	AVR1:decreased
	Short		No Hazard.	AVR1:0
ZD101	Open		See 40 Page.	
	Short		R180, R181 opened, No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
ZD102	Open	See 40 Page.	
	Short	No Hazard.	AVR1:0
ZD103	Open	Normal operation.	AVR1:*
	Short	R180, R181 opened, No hazard.	AVR1:0
ZD104	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD105	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD170	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
ZD180	Open	No Hazard.	AVR1:*
	Short	R180, R181 opened, No hazard.	AVR1:0
ZD202	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD210	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD501	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
ZD502	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
ZD601 (Only -48)	Open	No Hazard.	AVR1:0
	Short	Output voltage decreased. No hazard.	AVR1:decreased

## ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
C112	Short	R180, R181 opened, No hazard.	AVR1:0
C114	Short	R180, R181 opened, No hazard.	AVR1:0
C125	Short	R180, R181 opened, No hazard.	AVR1:0
C130	Short	F101, TRC101 opened, No hazard.	AVR1:0
C131	Short	F101, TRC101 opened, No hazard.	AVR1:0
C132	Short	F101, TRC101 opened, No hazard.	AVR1:0
C172	Short	R180, R181 opened, No hazard.	AVR1:0
C180	Short	R180, R181, 182 opened, No hazard.	AVR1:0
C201	Short	Output voltage decreased. No hazard.	AVR1:decreased
C202	Short	Output voltage decreased. No hazard.	AVR1:decreased
C203	Short	Output voltage decreased. No hazard.	AVR1:decreased
C204	Short	No Hazard.	AVR1:0
C205	Short	No Hazard.	AVR1:0
C214	Short	No Hazard.	AVR1:0
C704	Short	Output voltage decreased. No hazard.	AVR1:decreased
C705	Short	Output voltage decreased. No hazard.	AVR1:decreased
C706	Short	Output voltage decreased. No hazard.	AVR1:decreased
C708	Short	Output voltage decreased. No hazard.	AVR1:decreased
D103	Open	Normal operation.	AVR1:*
D104	Open	Normal operation.	AVR1:*
D110	Short	F101 opened, No hazard.	AVR1:0
D201	Short	Output voltage decreased. No hazard.	AVR1:decreased
D202	Short	Output voltage decreased. No hazard.	AVR1:decreased
D251	Open	No Hazard.	AVR1:0

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
D252	Short		F101 opened, No hazard.	AVR1:0
D271	Open		No Hazard.	AVR1:0
D272	Short		F101 opened, No hazard.	AVR1:0
FAN701	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
FAN702	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
L103	Short	1-2	F101 opened, No hazard.	AVR1:0
		2-3, 4, 5	No Hazard.	AVR1:*
L104	Open		Normal operation.	AVR1:*
L517	Short	3-4	Output voltage decreased. No hazard.	AVR1:decreased
R122	Open		Normal operation.	AVR1:*
R152	Open		Output voltage decreased. No hazard.	AVR1:decreased
R153	Open		Output voltage decreased. No hazard.	AVR1:decreased
R242	Open		Output voltage decreased. No hazard.	AVR1:decreased
R243	Open		Output voltage decreased. No hazard.	AVR1:decreased
R250	Open		Output voltage decreased. No hazard.	AVR1:decreased
R253	Open		Output voltage decreased. No hazard.	AVR1:decreased
R254	Open		Output voltage decreased. No hazard.	AVR1:decreased
R270	Open		Output voltage decreased. No hazard.	AVR1:decreased
R273	Open		Output voltage decreased. No hazard.	AVR1:decreased
R274	Open		Output voltage decreased. No hazard.	AVR1:decreased
SS101	Short	+-AC	F101 opened, No hazard.	AVR1:0
		--AC	F101 opened, No hazard.	AVR1:0

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
SS102	Short	+AC	F101 opened, No hazard.	AVR1:0
		--AC	F101 opened, No hazard.	AVR1:0
SS103	Short	C-A	F101 opened No hazard.	AVR1:0
SS501	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
SS502	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
SS503	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
SS504	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
SS505	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
SS506	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
T201	short	A-B	Output voltage decreased. No hazard.	AVR1:decreased
		C-D	Output voltage decreased. No hazard.	AVR1:decreased
TR101	Short	D-S	R120 opened, IC101 short No hazard.	AVR1:0
		G-D	R120 opened, IC101 short No hazard.	AVR1:0
TR102	Open	G	F101 opened No hazard.	AVR1:0
	Short	D-S	F101 opened, No hazard.	AVR1:0
		G-D	F101 opened No hazard.	AVR1:0
TR180	Short	G-D	Normal operation.	AVR1:*
TR201	Open	G	No Hazard.	AVR1:0
	Short	D-S	Output voltage decreased. No hazard.	AVR1:decreased
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR202	Open	G	No Hazard.	AVR1:0
	Short	D-S	Output voltage decreased. No hazard.	AVR1:decreased
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR250	Open	C	Output voltage decreased. No hazard.	AVR1:decreased



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR250	Open	E	Output voltage decreased. No hazard.	AVR1:decreased
		B	Output voltage decreased. No hazard.	AVR1:decreased
TR270	Open	C	Output voltage decreased. No hazard.	AVR1:decreased
		E	Output voltage decreased. No hazard.	AVR1:decreased
		B	Output voltage decreased. No hazard.	AVR1:decreased
ZD101	Open		R180, R181 opened, No hazard.	AVR1:0
ZD102	Open		R180, R181 opened, No hazard.	AVR1:0