

ABNORMAL TEST RESULT

OF MODEL PJA150F

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 : 2/19 ~ 17/19)

(Abnormal Test Result: 18/19 ~ 19/19)

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
C103	Open	See 18 Page.	
	Short	F101 opened, No hazard.	AVR1:0
C106	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
C109	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C110	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C112	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C113	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
C114	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C115	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C116	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C120	Open	See 18 Page.	
	Short	F101 opened, No hazard.	AVR1:0

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Component	Mode	Comment	Output Voltage (V)
C121	Open	See 18 Page.	
	Short	F101 opened, No hazard.	AVR1:0
C130	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C131	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C132	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C145	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C160	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C161	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
C201	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
C202	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
C203	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C204	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
C205	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C206	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C207	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C209	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
C211	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C212	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C213	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
C214	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
C222	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C223	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C501	Open	Normal operation	AVR1:*
	Short	Output voltage decreased.	AVR1:decreased
C502	Open	Normal operation	AVR1:*
	Short	Output voltage decreased.	AVR1:decreased
C503	Open	Normal operation	AVR1:*
	Short	Output voltage decreased.	AVR1:decreased

F M E A

Component	Mode	Comment	Output Voltage (V)
C504	Open	Normal operation	AVR1:*
	Short	Output voltage decreased.	AVR1:decreased
C505	Open	Normal operation	AVR1:*
	Short	Output voltage decreased.	AVR1:decreased
C506	Open	Normal operation	AVR1:*
	Short	Output voltage decreased.	AVR1:decreased
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:*
C521	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C522	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C523	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C601	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C602	Open	Output voltage decreased.	AVR1:decreased
	Short	Normal operation	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C604	Open	Normal operation	AVR1:*
	Short	Output voltage decreased.	AVR1:decreased
C606	Open	Normal operation	AVR1:*
	Short	Output voltage decreased.	AVR1:decreased
D101	Open	No hazard.	AVR1:0
	Short	F101 opened, No hazard	AVR1:0
D102	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
D103	Open	See 18 Page.	
	Short	Normal operation	AVR1:*
D104	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
D105	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
D106	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
D107	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
D108	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
D201	Open	No hazard.	AVR1:0
	Short	See 18 Page.	
D202	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
D203	Open		Normal operation	AVR1:*
	Short		Normal operation	AVR1:*
D204	Open		Normal operation	AVR1:*
	Short		No hazard.	AVR1:0
D205	Open		Normal operation	AVR1:*
	Short		Output voltage decreased.	AVR1:decreased
D207	Open		Normal operation	AVR1:*
	Short		Normal operation	AVR1:*
D208	Open		Normal operation	AVR1:*
	Short		Normal operation	AVR1:*
D209	Open		Normal operation	AVR1:*
	Short		No hazard.	AVR1:0
D501	Open		Normal operation	AVR1:*
	Short		Normal operation	AVR1:*
IC201	Open	1	Output voltage decreased.	AVR1:decreased
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	Normal operation	AVR1:*
		6	See 18 Page.	
		7	No hazard.	AVR1:0
		8	See 18 Page.	
		9	No hazard.	AVR1:0
		10	See 18 Page.	

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Component	Mode		Comment	Output Voltage (V)
IC201	Open	11	No hazard.	AVR1:0
		12	Output voltage decreased.	AVR1:decreased
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		16	Normal operation	AVR1:*
	Short	1-2	See 18 Page.	
		2-3	No hazard.	AVR1:0
		3-4	See 18 Page.	
		4-5	No hazard.	AVR1:0
		5-6	See 18 Page.	
		6-7	See 18 Page.	
		7-8	See 18 Page.	
		9-10	No hazard.	AVR1:0
		10-11	Normal operation	AVR1:*
		11-12	No hazard.	AVR1:0
		12-13	See 18 Page.	
		13-14	No hazard.	AVR1:0
IC601	Open	3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
	Short	2-3	Output voltage decreased.	AVR1:decreased
		4-5	No hazard.	AVR1:0
L101	Open		No hazard.	AVR1:0
	Short		Normal operation	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
L102	Open		No hazard.	AVR1:0
	Short		Normal operation	AVR1:*
L103	Open	1	No hazard.	AVR1:0
		9	No hazard.	AVR1:0
		11	See 18 Page.	
		12	See 18 Page.	
	Short	9-11	No hazard.	AVR1:0
L501	Open		No hazard.	AVR1:0
	Short		Normal operation	AVR1:*
LED501	Open		Normal operation	AVR1:*
	Short		Normal operation	AVR1:*
PC201	Open	A, K	No hazard.	AVR1:0
		C, E	No hazard.	AVR1:0
	Short	A-K	No hazard.	AVR1:0
		C-E	Output voltage decreased.	AVR1:decreased
PC202	Open	A, K	Normal operation	AVR1:*
		C, E	Normal operation	AVR1:*
	Short	A-K	Normal operation	AVR1:*
		C-E	No hazard.	AVR1:0
PTH160	Open		Normal operation	AVR1:*
	Short		Normal operation	AVR1:*
R101	Open		Normal operation	AVR1:*
R102	Open		Normal operation	AVR1:*
R103	Open		Normal operation	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R104	Open	Normal operation	AVR1:*
R105	Open	Normal operation	AVR1:*
R106	Open	No hazard.	AVR1:0
R107	Open	No hazard.	AVR1:0
R108	Open	No hazard.	AVR1:0
R109	Open	No hazard.	AVR1:0
R110	Open	Normal operation	AVR1:*
R111	Open	Normal operation	AVR1:*
R112	Open	Normal operation	AVR1:*
R113	Open	Normal operation	AVR1:*
R115	Open	Normal operation	AVR1:*
R119	Open	No hazard.	AVR1:0
R120	Open	Normal operation	AVR1:*
R121	Open	Normal operation	AVR1:*
R123	Open	Normal operation	AVR1:*
R124	Open	Normal operation	AVR1:*
R125	Open	Normal operation	AVR1:*
R126	Open	Output voltage decreased.	AVR1:decreased
R127	Open	Output voltage decreased.	AVR1:decreased
R128	Open	Output voltage decreased.	AVR1:decreased
R129	Open	Output voltage decreased.	AVR1:decreased
R130	Open	Output voltage decreased.	AVR1:decreased
R131	Open	No hazard.	AVR1:0
R132	Open	No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
R133	Open	No hazard.	AVR1:0
R134	Open	No hazard.	AVR1:0
R135	Open	No hazard.	AVR1:0
R136	Open	No hazard.	AVR1:0
R137	Open	No hazard.	AVR1:0
R138	Open	Normal operation.	AVR1:*
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:*
R150	Open	No hazard.	AVR1:0
R151	Open	No hazard.	AVR1:0
R152	Open	Normal operation	AVR1:*
R153	Open	Normal operation	AVR1:*
R154	Open	Normal operation	AVR1:*
R155	Open	Normal operation	AVR1:*
R160	Open	Normal operation	AVR1:*
R161	Open	Normal operation	AVR1:*
R162	Open	Normal operation	AVR1:*
R163	Open	Normal operation	AVR1:*
R164	Open	Normal operation	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R201	Open	Normal operation	AVR1:*
R202	Open	Normal operation	AVR1:*
R203	Open	See 18 Page.	
R204	Open	See 18 Page.	
R205	Open	No hazard.	AVR1:0
R206	Open	Normal operation	AVR1:*
R207	Open	Normal operation	AVR1:*
R208	Open	Normal operation	AVR1:*
R209	Open	No hazard.	AVR1:0
R210	Open	Normal operation	AVR1:*
R213	Open	No hazard.	AVR1:0
R215	Open	No hazard.	AVR1:0
R216	Open	Normal operation	AVR1:*
R217	Open	Output voltage decreased.	AVR1:decreased
R218	Open	Output voltage decreased.	AVR1:decreased
R219	Open	Normal operation	AVR1:*
R220	Open	Normal operation	AVR1:*
R221	Open	Normal operation	AVR1:*
R222	Open	Normal operation	AVR1:*
R230	Open	Normal operation	AVR1:*
R231	Open	Normal operation	AVR1:*
R232	Open	Normal operation	AVR1:*
R233	Open	Normal operation	AVR1:*
R234	Open	Normal operation	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
R235	Open	Normal operation	AVR1:*
R236	Open	Normal operation	AVR1:*
R237	Open	Normal operation	AVR1:*
R238	Open	Normal operation	AVR1:*
R239	Open	Normal operation	AVR1:*
R240	Open	Normal operation	AVR1:*
R241	Open	Normal operation	AVR1:*
R501	Open	Normal operation	AVR1:*
R520	Open	Normal operation	AVR1:*
R521	Open	Normal operation	AVR1:*
R522	Open	Normal operation	AVR1:*
R523	Open	Normal operation	AVR1:*
R601	Open	Output voltage decreased.	AVR1:decreased
R602	Open	Output voltage decreased.	AVR1:decreased
R603	Open	Normal operation	AVR1:*
R604	Open	Normal operation	AVR1:*
R605	Open	Output voltage decreased.	AVR1:decreased
R606	Open	No hazard.	AVR1:0
R607	Open	No hazard.	AVR1:0
R608	Open	Output voltage decreased.	AVR1:decreased
R609	Open	Normal operation	AVR1:*
SK101	Open	Normal operation	AVR1:*
	Short	F101 opened, No hazard.	AVR1:0
SS101	Open	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
SS101	Short		F101 opened, No hazard.	AVR1:0
SS501	Open	Cathod	Normal operation	AVR1:*
		Alternativ	See 18 Page.	
	Short	C-A	No hazard.	AVR1:0
SS502	Open	Cathod	Normal operation	AVR1:*
		Alternativ	See 18 Page.	
	Short	C-A	No hazard.	AVR1:0
T201	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	Normal operation	AVR1:*
		4	See 18 Page.	
		5	See 18 Page.	
		8, 9	No hazard.	AVR1:0
		10, 11	No hazard.	AVR1:0
	Short	1-2	See 18 Page.	
		2-3	No hazard.	AVR1:0
		3-4	See 18 Page.	
		4-5	No hazard.	AVR1:0
		8, 9-10, 11	See 19 Page.	
TH101	Open		No hazard.	AVR1:0
	Short		Normal operation	AVR1:*
TR101	Open	D	See 19 Page.	
		S	See 19 Page.	
		G	See 19 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR101	Short	D-S	See 19 Page.	
		S-G	See 19 Page.	
		G-D	See 19 Page.	
TR160	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
TR201	Open	D	See 19 Page.	
		S	See 19 Page.	
		G	See 19 Page.	
	Short	D-S	See 19 Page.	
		S-G	See 19 Page.	
		G-D	See 19 Page.	
TR202	Open	S(1)	Normal operation	AVR1:*
		G(2)	Normal operation	AVR1:*
		D(3)	Normal operation	AVR1:*
		S(4)	Normal operation	AVR1:*
		G(5)	Normal operation	AVR1:*
		D(6)	Normal operation	AVR1:*
	Short	1-2	Normal operation	AVR1:*
		2-3	Normal operation	AVR1:*
		4-5	Normal operation	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
TR202	Short	5-6	Normal operation	AVR1:*
TR203	Open	C	See 19 Page.	
		E	See 19 Page.	
		B	See 19 Page.	
	Short	C-E	Normal operation	AVR1:*
		E-B	Normal operation	AVR1:*
		B-C	Normal operation	AVR1:*
TR204	Open	D	Normal operation	AVR1:*
		S	Normal operation	AVR1:*
		G	Normal operation	AVR1:*
	Short	D-S	No hazard.	AVR1:0
		S-G	Normal operation	AVR1:*
		G-D	Normal operation	AVR1:*
VR201	Open	brush	Normal operation	AVR1:*
			Normal operation	AVR1:*
	Short		Normal operation	AVR1:*
VR601	Open	brush	Output voltage decreased.	AVR1:decreased
			Output voltage decreased.	AVR1:decreased
	Short		No hazard.	AVR1:0
ZD101	Open		Normal operation	AVR1:*
	Short		Normal operation	AVR1:*
ZD102	Open		Normal operation	AVR1:*
	Short		Normal operation	AVR1:*
ZD103	Open		Normal operation	AVR1:*



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Component	Mode	Comment	Output Voltage (V)
ZD103	Short	No hazard.	AVR1:0
ZD201	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
ZD202	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
ZD501	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
ZD502	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
ZD503	Open	Normal operation	AVR1:*
	Short	No hazard.	AVR1:0
ZD601	Open	No hazard.	AVR1:0
	Short	Output voltage decreased.	AVR1:decreased

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C103	Open		Normal operation.	AVR1:*
C120	Open		Normal operation	AVR1:*
C121	Open		Normal operation	AVR1:*
D103	Open		Normal operation	AVR1:*
D201	Short		No hazard.	AVR1:0
IC201	Open	6	Normal operation	AVR1:*
		8	Normal operation	AVR1:*
		10	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		6-7	Normal operation	AVR1:*
		7-8	Normal operation	AVR1:*
		12-13	No hazard.	AVR1:0
L103	Open	11	No hazard.	AVR1:0
		12	Normal operation	AVR1:*
R203	Open		Normal operation	AVR1:*
R204	Open		No hazard.	AVR1:0
SS501	Open	Alternativ	Normal operation	AVR1:*
SS502	Open	Alternativ	Normal operation	AVR1:*
T201	Open	4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
	Short	1-2	F101 opened, No hazard	AVR1:0
		3-4	F101 opened, No hazard	AVR1:0

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
T201	Short	8, 9-10, 11	Normal operation	AVR1:0
TR101	Open	D	Output voltage decreased.	AVR1:decreased
		S	Output voltage decreased.	AVR1:decreased
		G	Output voltage decreased.	AVR1:decreased
	Short	D-S	F101 opened, No hazard.	AVR1:0
		S-G	Output voltage decreased.	AVR1:decreased
		G-D	F101 opened, No hazard.	AVR1:0
TR201	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	F101 opened, No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	F101 opened, No hazard.	AVR1:0
TR203	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0