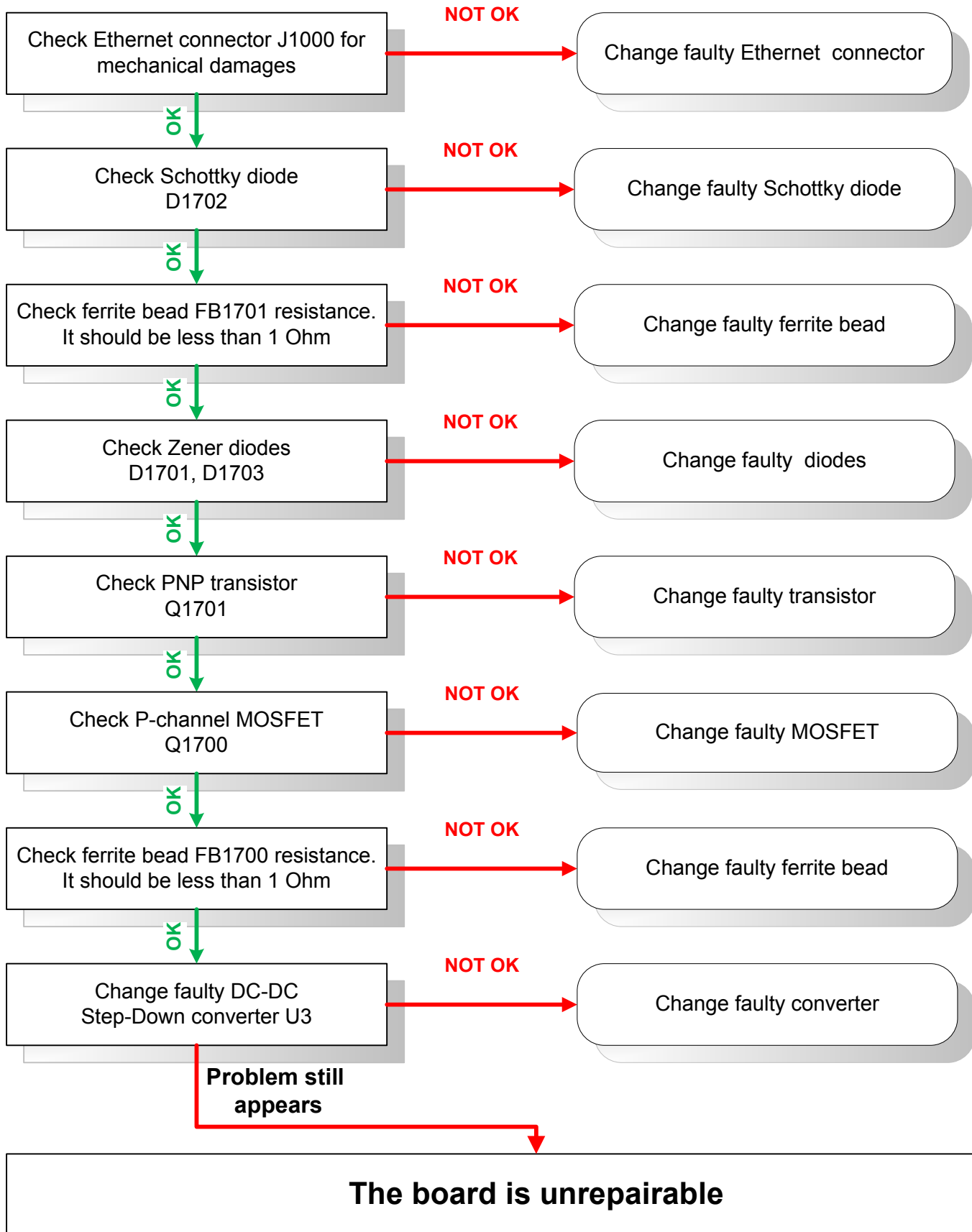


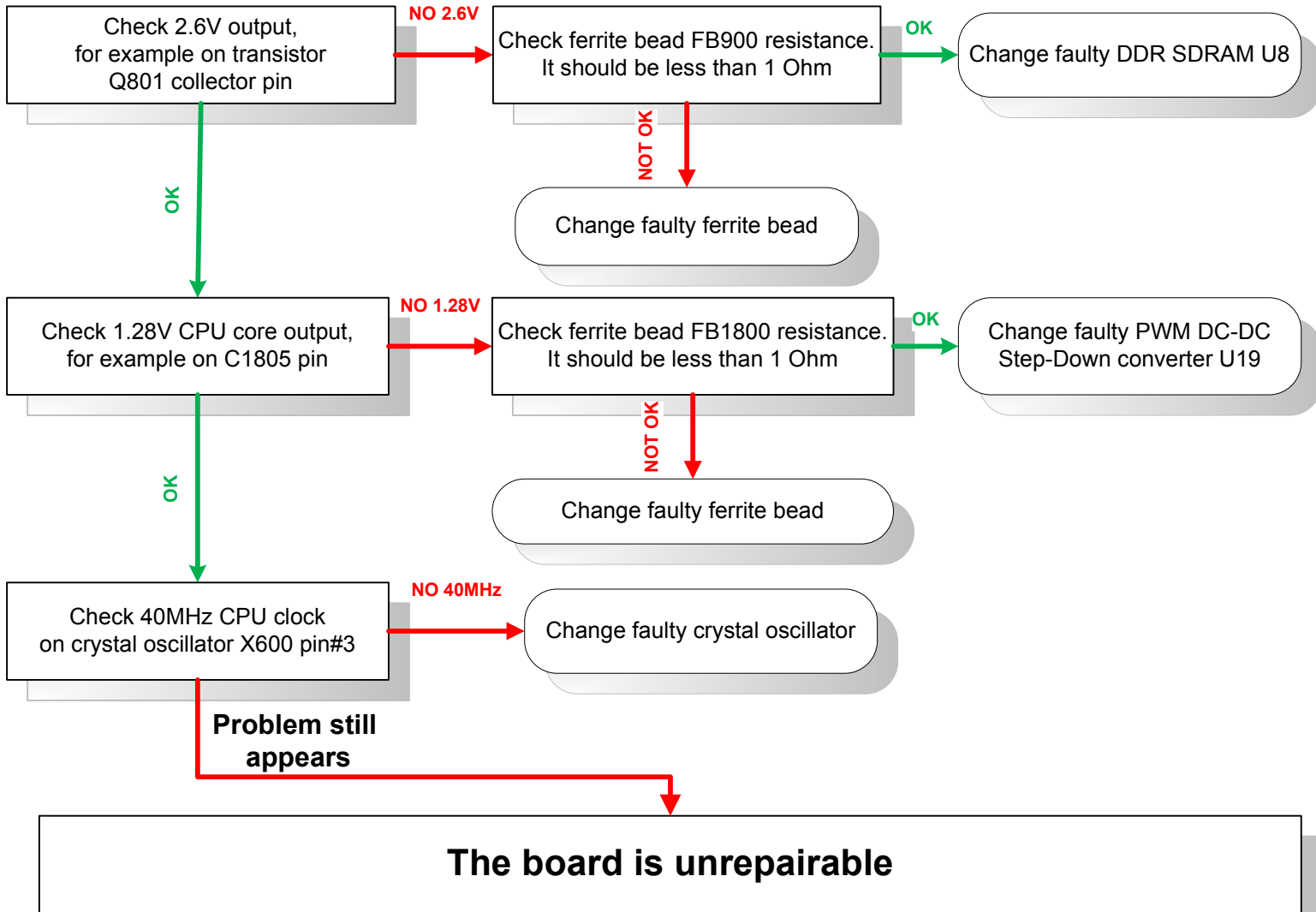
TroubleShooting for RBGroove-5Hn and RBGroove A-5Hn

These repair instructions are for NON WARRANTY repairs only!
Please make visual inspection for signs of corrosion or mechanical damages before starting.

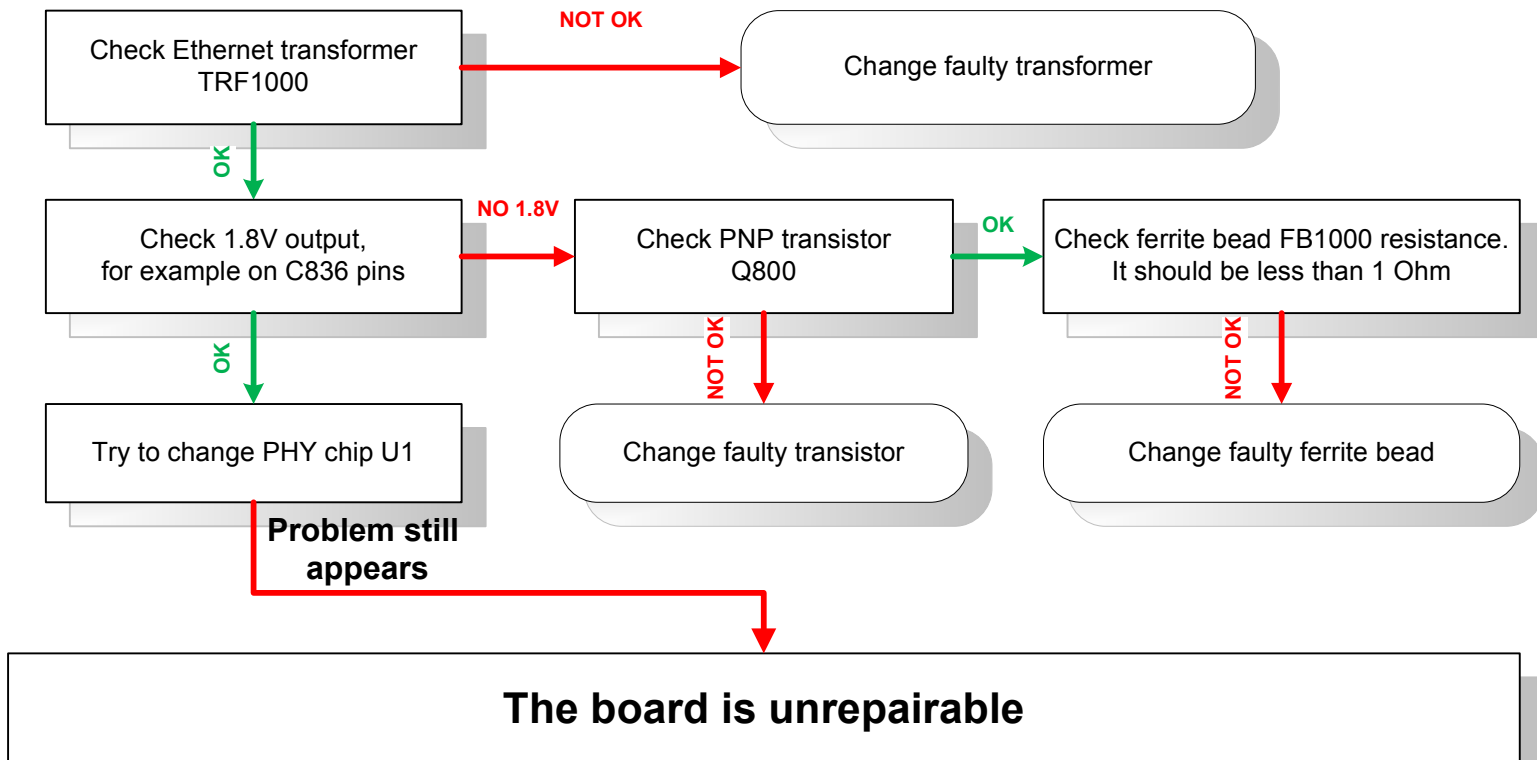
No power, green LED LD1200 does not shine



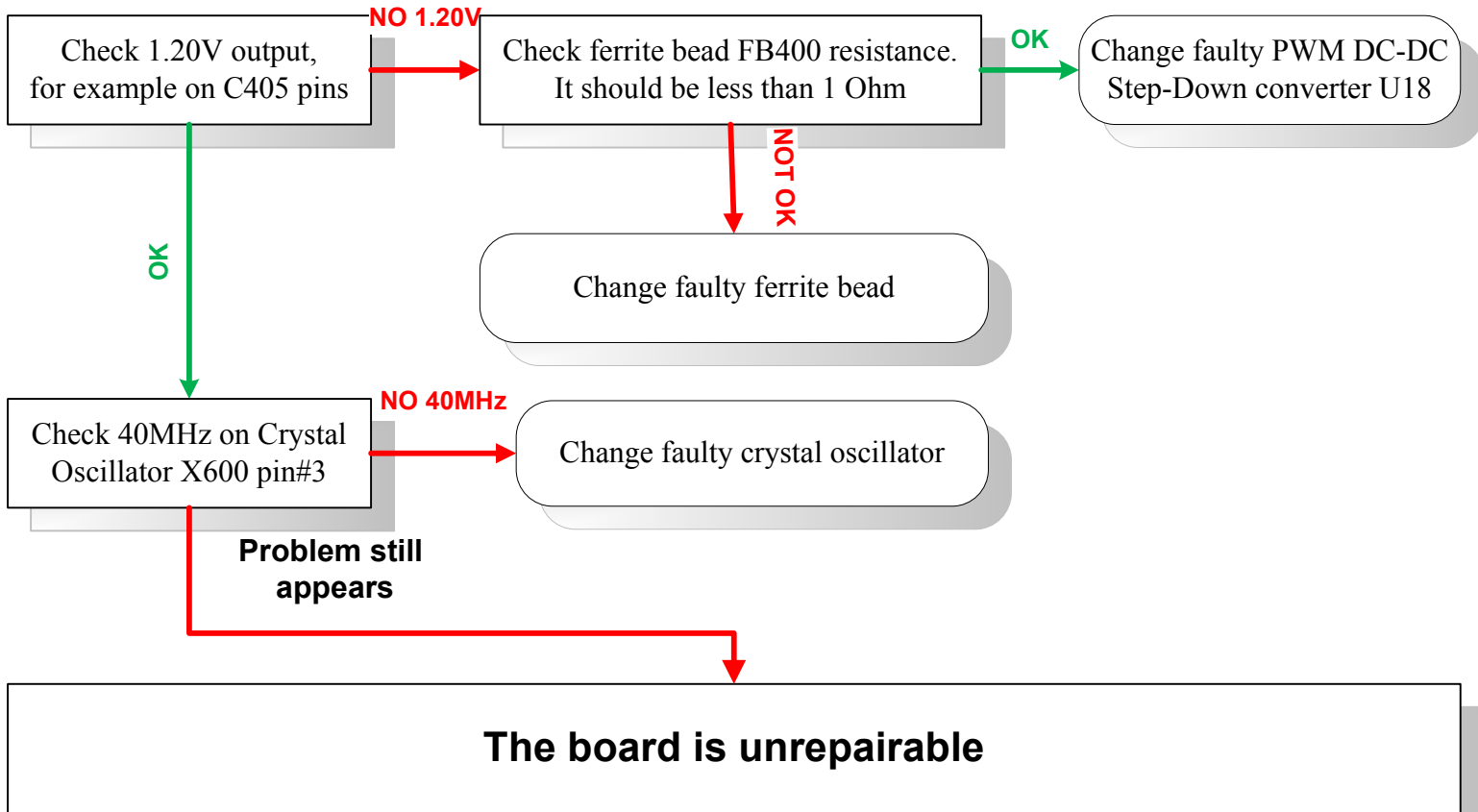
RB does not boot



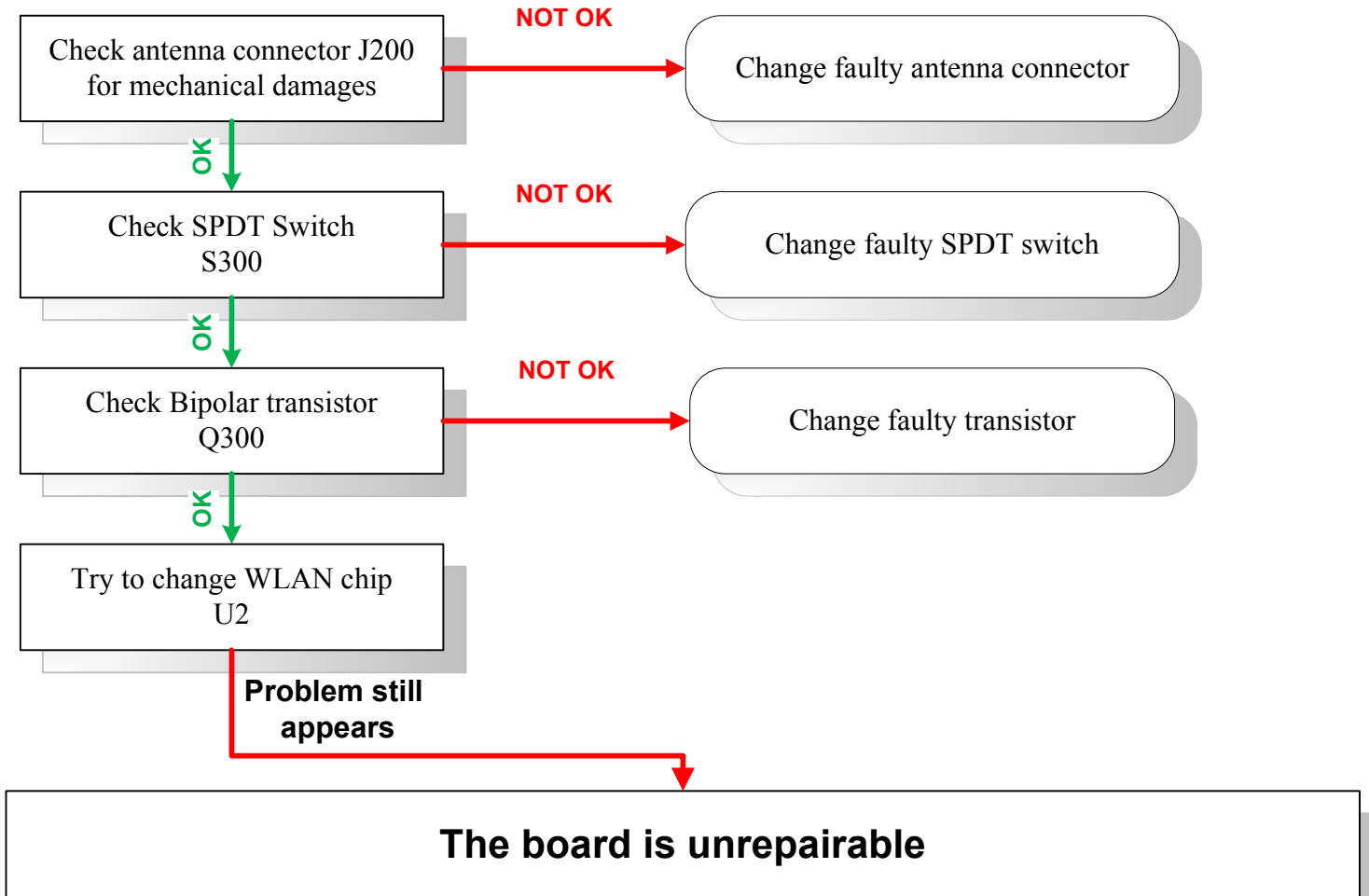
Ethernet port does not work, drop ping packets



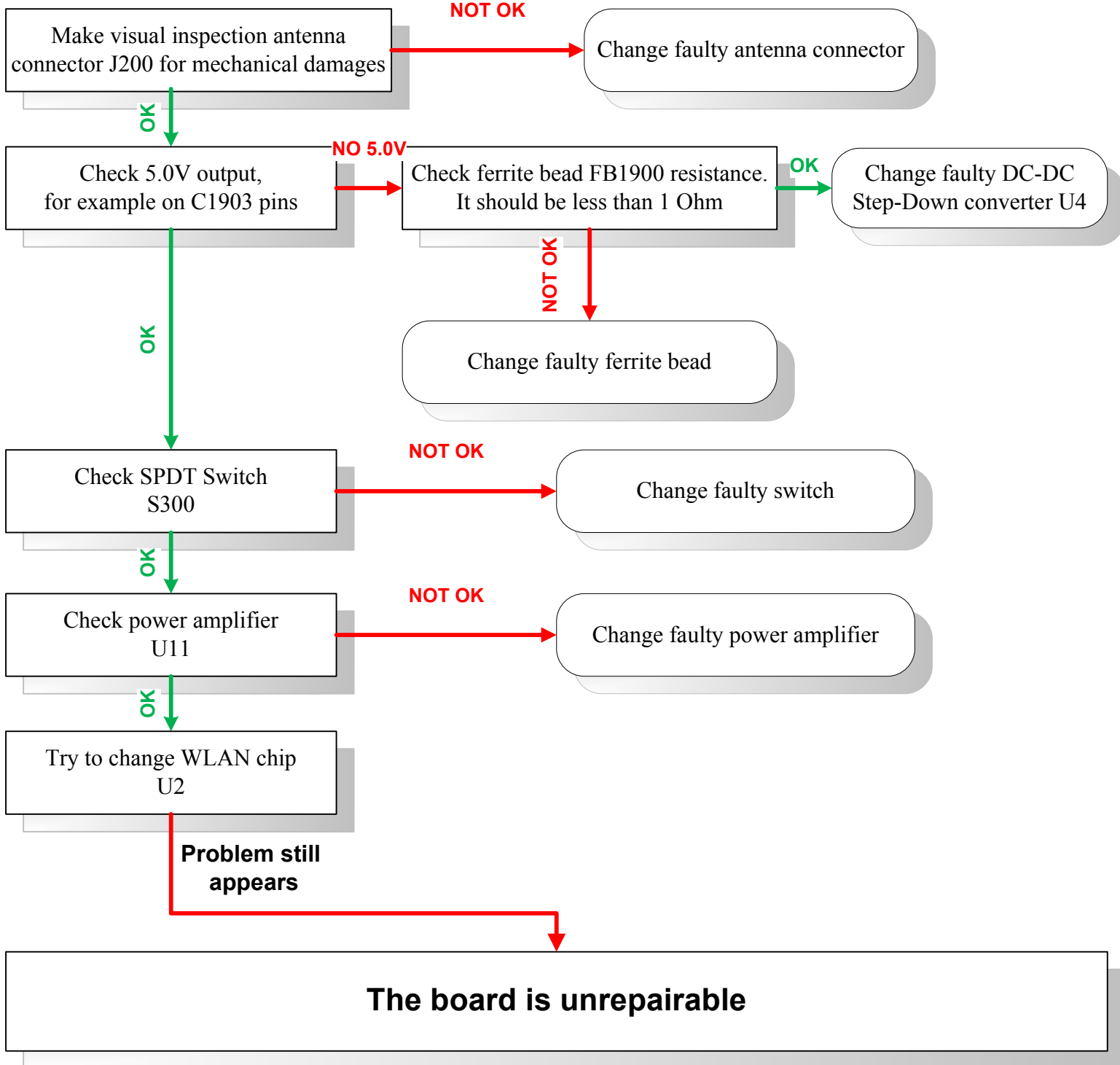
Network WLAN chip AR9280 does not show in the interface menu



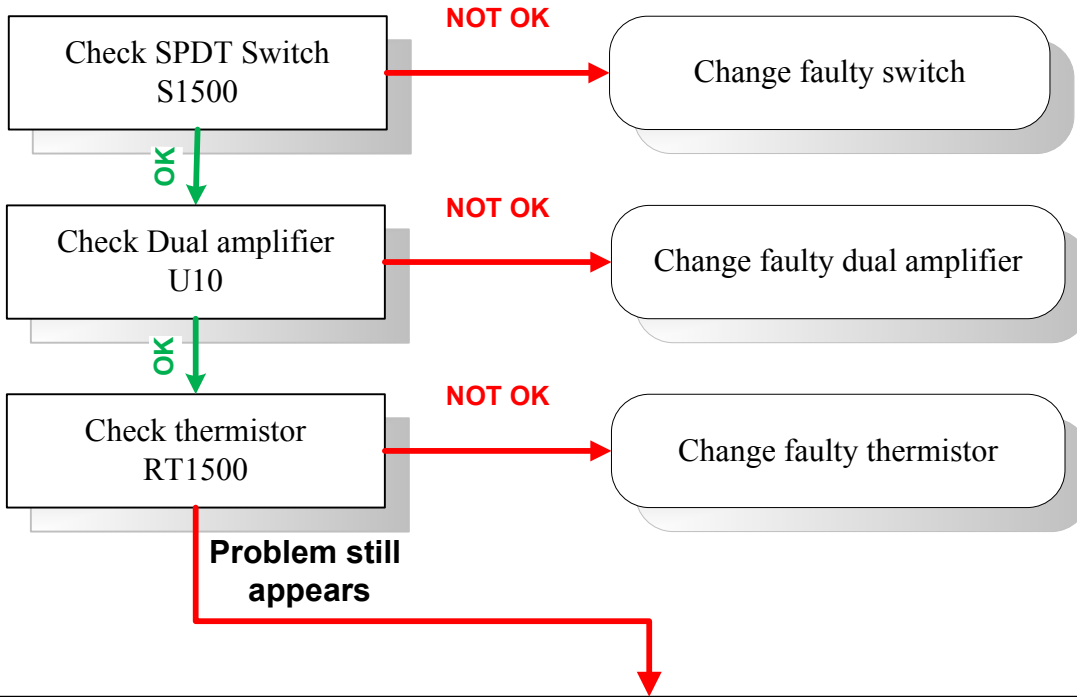
RADIO PART Receive does not work



Transmit does not work

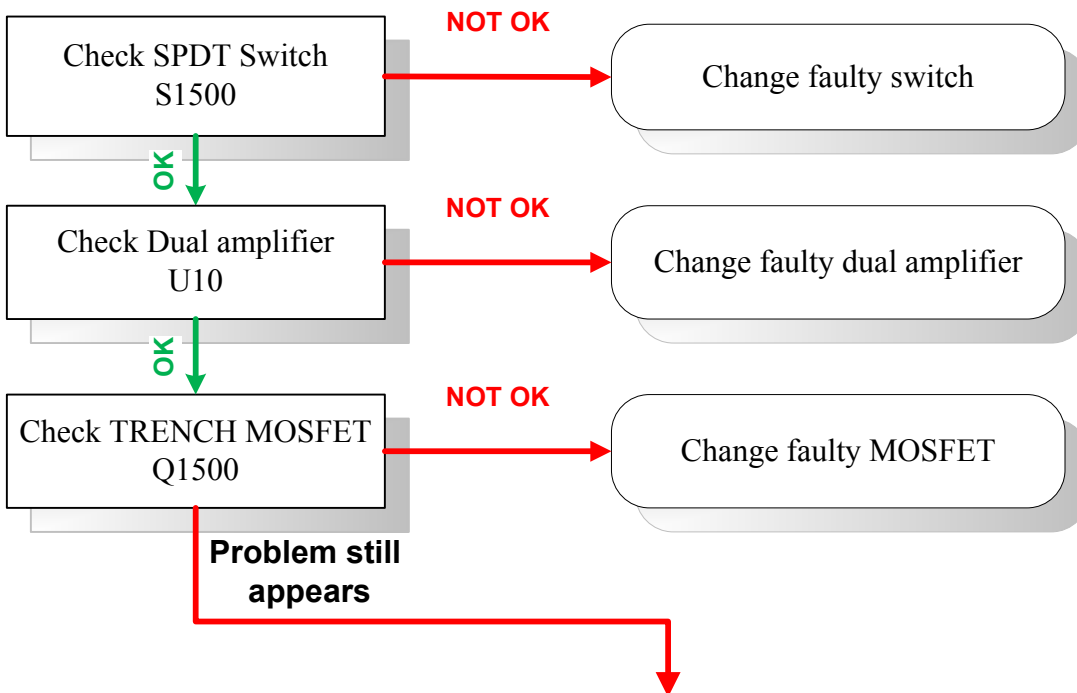


Temperature monitor



The board is unrepairable

Voltage monitor



The board is unrepairable

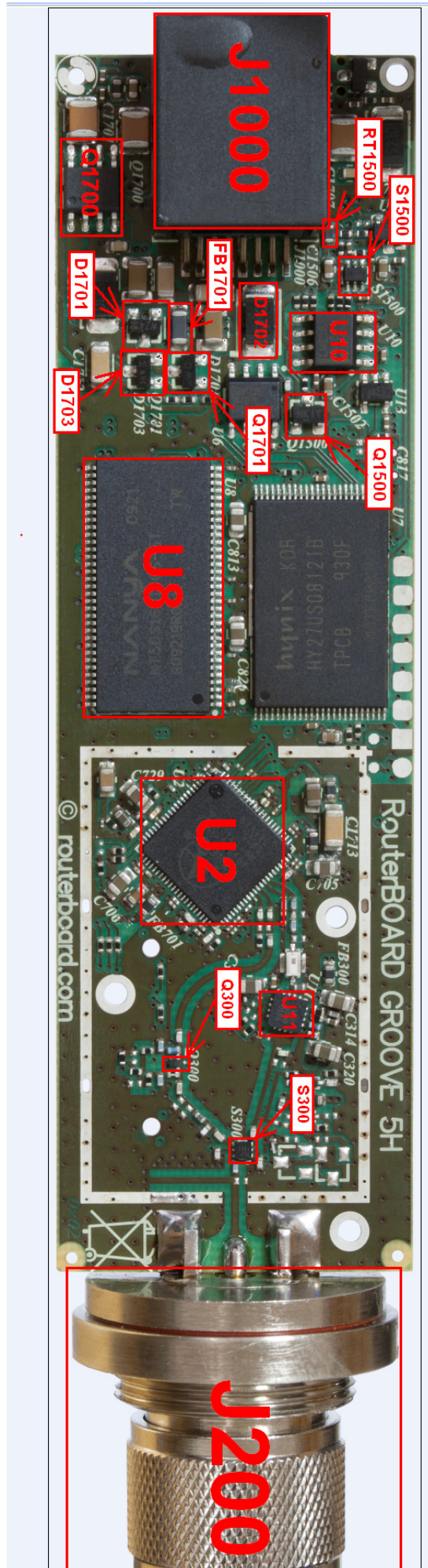
Reference number	Part Number	Manufacturer	Description
D1701	BZX84C10-T1-LF	Won-Top Electronics Co., Ltd.	Diode Zener BZX84C 10V 5% 225mW SOT23
D1702	SR210-T3-LF	Won-Top Electronics Co., Ltd.	Diode Schottky 100V 2A SMA
D1703	BZX84-B30,215	NXP Semiconductors	Diode Zener BZX84B 30V 2% 250mW SOT23
FB400, FB900, FB1700, FB1800, FB1900	PBY160808T-331Y-N	Yageo Corporation	Ferrite Chip Bead, 0603, 330 Ohm, 2A, SMD
FB1000	BLM15AG121SN1D	Murata manufacturing Co.	Ferr Chip Beads 120 Ohm 500mA, 0402, FB120
FB1701	PBY321611T-800Y-N	Yageo Corporation	FERRITE 3A 80 OHM 1206 SMD
J200	N-JYHD-R4	ChuangLian Electronic Component (Group) Co.	PCB-N-Male connector
J1000	3004CM5601	KINSUN INDUSTRIES INC	RJ45 with TabDown, w/oLEDs, w/oMagnetics, wShield, Right angle, SMD (5mm)
Q300	BFR740L3RHE6327	Infineon Technologies Taiwan Co Ltd	SiGe Heterostructure Bipolar Transistor, DC-6GHz
Q800	KTA1663-Y-RTF/P	KEC Corporation, LTD	PNP transistor Ic= -1.5A, Vce= -30V, SOT-89
Q1500	2N7002,215	NXP Semiconductors	TRENCH MOSFET, SOT23
Q1700	AO4441	Alpha & Omega	P-Ch MOSFET -60V -4A 100mOhm SO-8
Q1701	BC856B,215	NXP Semiconductors	Small Sign PNP 250mW SOT-23
RT1500	ERT-J1VT152J	Panasonic CVCA	NTC Thermistor 1.5K, 0603, 5%
S300	UPG2163T5N-E2-A	NEC Electronics	GaAs MMIC SPDT Switch, 2.4GHz&6GHz, 2.5-5.3V
S1500	SN74LVC1G3157DCKR	Texas Instruments	IC SWITCH SPDT SC70-6
TRF1000	H1632CG	Mentech Electronics Co.,Ltd.	10/100 Ethernet transformer with 4 line filters, SMD, RoHS
U1	AR7241-AH1A	Atheros Technology Ltd.	Network processor 400MHz, DDR1/2, USB2.0 , PCI-E, 5x 10/100 PHY LQFP128-EP
U2	AR9280-AL1A	Atheros Technology Ltd.	802.11n 2.4/5GHz 2x2 MIMO MAC,BB,Radio WLAN IC, PCIe
U3, U4	LSP5502SAC	Lite-On Semiconductor corporation	DC-DC Step-down converter 4.5-30V input 2A output, SO8, RoHS
U8	NT5DS16M16CS-5T	NANYA TECHNOLOGY CORPORATION	DDR SDRAM 256Mbit DDR400 16Mx16bit TSOP-66 0+70C RoHS

When you order components for repairing boards from our sales, please, write components reference number not a part number

Reference number	Part Number	Manufacturer	Description
U8 (for RBGroove A)	NT5DS32M16BS-5T	NANYA TECHNOLOGY CORPORATION	DDR SDRAM 512Mbit DDR400 32Mx16bit TSOP-66
U10	LM258DR	Texas Instruments	IC DUAL OP AMP 8-SOIC
U11	LX5530LQ-TR	Microsemi Corporate	InGaP HBT 4.5-6.0 GHz Power Amplifier, RoHS
U18	RT8025GJ5	Richtek Technology Corporation	1.25MHz, 400mA (works with 600mA load). PWM Step-Down DC/DC converter TSOT-23-5, Halogen free
U19	RT8025GJ5	Richtek Technology Corporation	1.25MHz, 400mA (works with 600mA load). PWM Step-Down DC/DC converter TSOT-23-5, Halogen free
X600	FD4000130	SaRonix-eCERA Corporation	Crystal Oscillator 40MHz 10ppm 1.8V 15pF -20+75 5x3.2

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RBGroove-5Hn Reference picture



RBGroove-5Hn Reference picture

