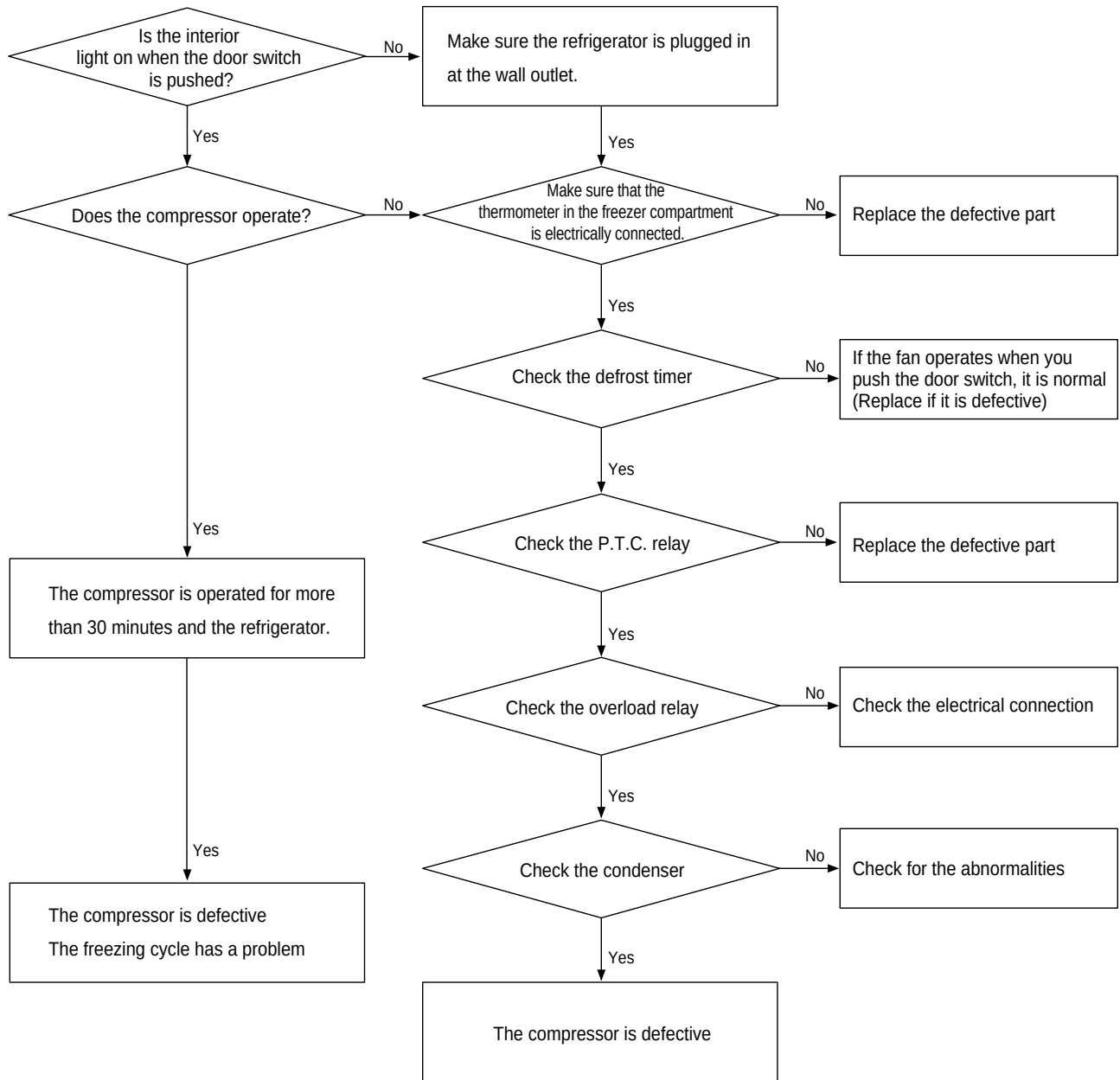
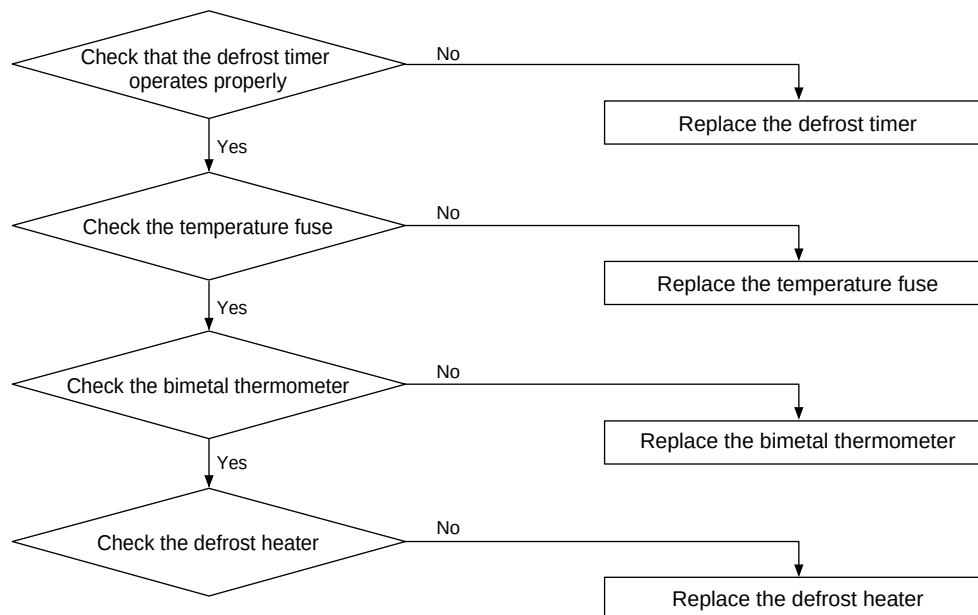


12. Troubleshooting

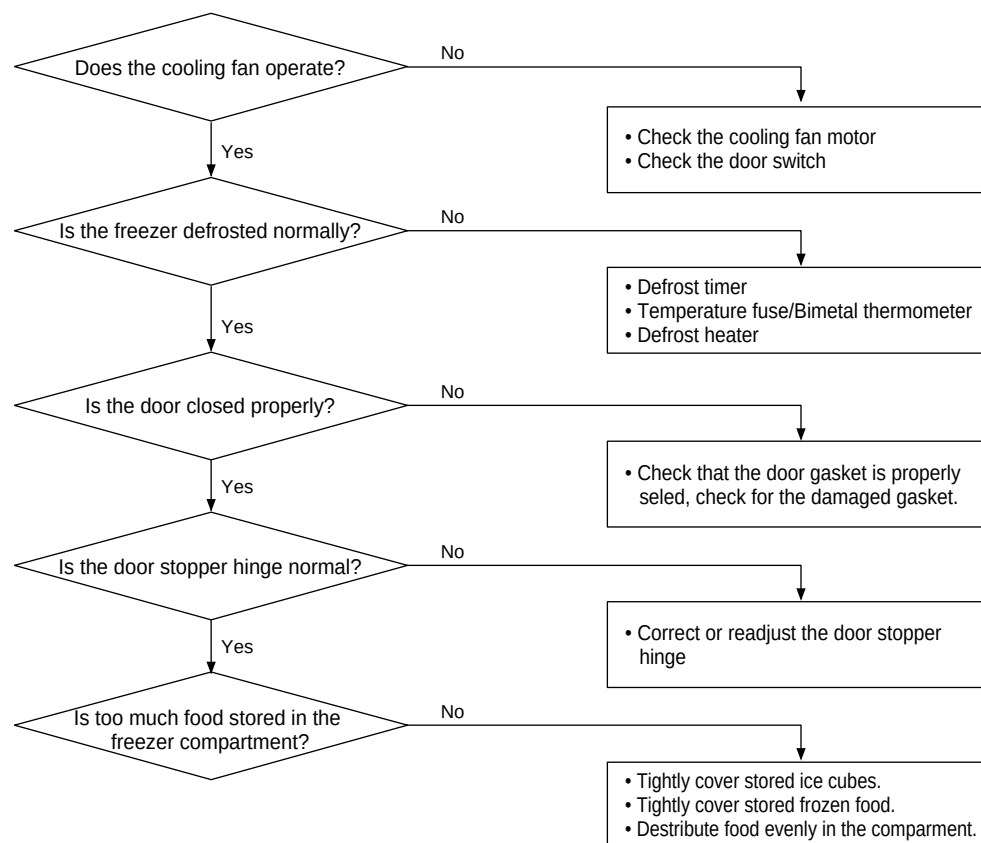
12-1 The refrigerator does not operate



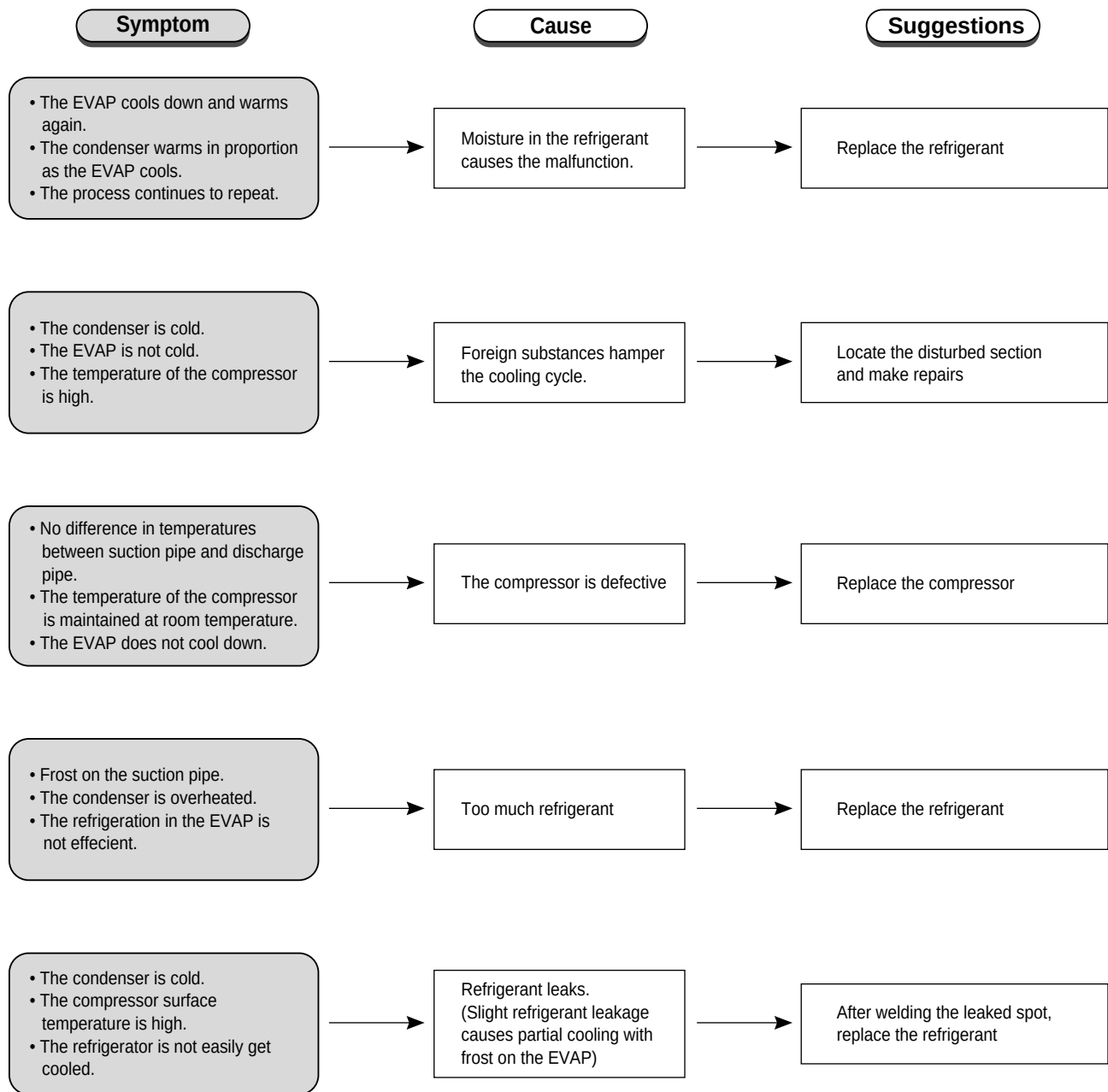
12-2 Defrosting mechanism does not work



12-3 Defrosting mechanism does not work



12-4 Trouble check for the cooling cycle



12-5 Diagnosing the main components

Components	Diagnosing methods and criteria			Location								
Compressor	• Use the tester to measure the resistance. – Bring the component to cool down completely before measuring.	<table><tr><td>Measuring point</td><td>Normal</td><td>Abnormal</td></tr><tr><td>Primary wire</td><td>Approx 10 ~ 500kW</td><td rowspan="2">0Wand•W</td></tr><tr><td>Secondary wire</td><td>3 ~ 20W</td></tr></table>	Measuring point	Normal	Abnormal	Primary wire	Approx 10 ~ 500kW	0Wand•W	Secondary wire	3 ~ 20W		Mechanical compartment
Measuring point	Normal	Abnormal										
Primary wire	Approx 10 ~ 500kW	0Wand•W										
Secondary wire	3 ~ 20W											
P.T.C Relay	• Use the tester to measure the resistance. – Bring the component to cool down completely before measuring.	<table><tr><td>Normal</td><td>Abnormal</td></tr><tr><td>Approx 10W ~ kW</td><td>0Wand•W</td></tr></table>	Normal	Abnormal	Approx 10W ~ kW	0Wand•W		Mechanical compartment				
Normal	Abnormal											
Approx 10W ~ kW	0Wand•W											
Condenser	• Use the tester to measure the resistance. – Bring the component to cool down completely before measuring.	<table><tr><td>Normal</td><td>Abnormal</td></tr><tr><td>Approx 10W~ 80kW</td><td>0Wand•W</td></tr></table>	Normal	Abnormal	Approx 10W~ 80kW	0Wand•W		Electrical equipment box				
Normal	Abnormal											
Approx 10W~ 80kW	0Wand•W											
Overload relay	• Use the tester to measure the resistance.	<table><tr><td>Normal</td><td>Abnormal</td></tr><tr><td>Approx 200kW</td><td>0Wand•W</td></tr></table>	Normal	Abnormal	Approx 200kW	0Wand•W		Mechanical compartment				
Normal	Abnormal											
Approx 200kW	0Wand•W											
Freezer compartment circulation Fan motor	• Use the tester to measure the resistance. – Bring the component to cool down completely before measuring.	<table><tr><td>Normal</td><td>Abnormal</td></tr><tr><td>Approx 100W~ 20kW</td><td>0Wand•W</td></tr></table>	Normal	Abnormal	Approx 100W~ 20kW	0Wand•W		Mechanical compartment. Freezer compartment.				
Normal	Abnormal											
Approx 100W~ 20kW	0Wand•W											
Rotating blade motor	• Use the tester to measure the resistance. – Bring the component to cool down completely before measuring.	<table><tr><td>Normal</td><td>Abnormal</td></tr><tr><td>Approx 10W~ 20kW</td><td>0Wand•W</td></tr></table>	Normal	Abnormal	Approx 10W~ 20kW	0Wand•W		Fresh food compartment				
Normal	Abnormal											
Approx 10W~ 20kW	0Wand•W											
Door switch	• Use the tester to measure the resistance.	<table><tr><td>Measuring point</td><td>Normal</td><td>Abnormal</td></tr><tr><td>A B contact point</td><td rowspan="2">Approx 200MW</td><td rowspan="2">MWand•W</td></tr><tr><td>When the switch is on by the contact</td></tr></table>	Measuring point	Normal	Abnormal	A B contact point	Approx 200MW	MWand•W	When the switch is on by the contact		Between the upper and the lower doors	
Measuring point	Normal	Abnormal										
A B contact point	Approx 200MW	MWand•W										
When the switch is on by the contact												
Defrost timer	• Use the tester to measure the resistance.	<table><tr><td>Measuring point</td><td>Normal</td><td>Abnormal</td></tr><tr><td>Between terminals</td><td>Approx 200MW</td><td rowspan="2">0Wand•W</td></tr><tr><td>Temperature fuse terminal</td><td>Approx 10W-300KW</td></tr></table>	Measuring point	Normal	Abnormal	Between terminals	Approx 200MW	0Wand•W	Temperature fuse terminal	Approx 10W-300KW		Electrical equipment box
Measuring point	Normal	Abnormal										
Between terminals	Approx 200MW	0Wand•W										
Temperature fuse terminal	Approx 10W-300KW											
Defrost heater	• Use the tester to measure the resistance. – Bring the component to cool down completely before measuring.	<table><tr><td>Normal</td><td>Abnormal</td></tr><tr><td>Approx 3KW~ 6KW</td><td>MW ~ •W</td></tr></table>	Normal	Abnormal	Approx 3KW~ 6KW	MW ~ •W		Lower EVAP				
Normal	Abnormal											
Approx 3KW~ 6KW	MW ~ •W											
Bimetal Temperature fuse	• Use the tester to measure the resistance.	<table><tr><td>Measuring point</td><td>Normal</td><td>Abnormal</td></tr><tr><td>Bimetal terminal</td><td rowspan="2">Approx 200MW</td><td rowspan="2">W ~ •W</td></tr><tr><td>Temperature fuse terminal</td></tr></table>	Measuring point	Normal	Abnormal	Bimetal terminal	Approx 200MW	W ~ •W	Temperature fuse terminal		EVAP	
Measuring point	Normal	Abnormal										
Bimetal terminal	Approx 200MW	W ~ •W										
Temperature fuse terminal												