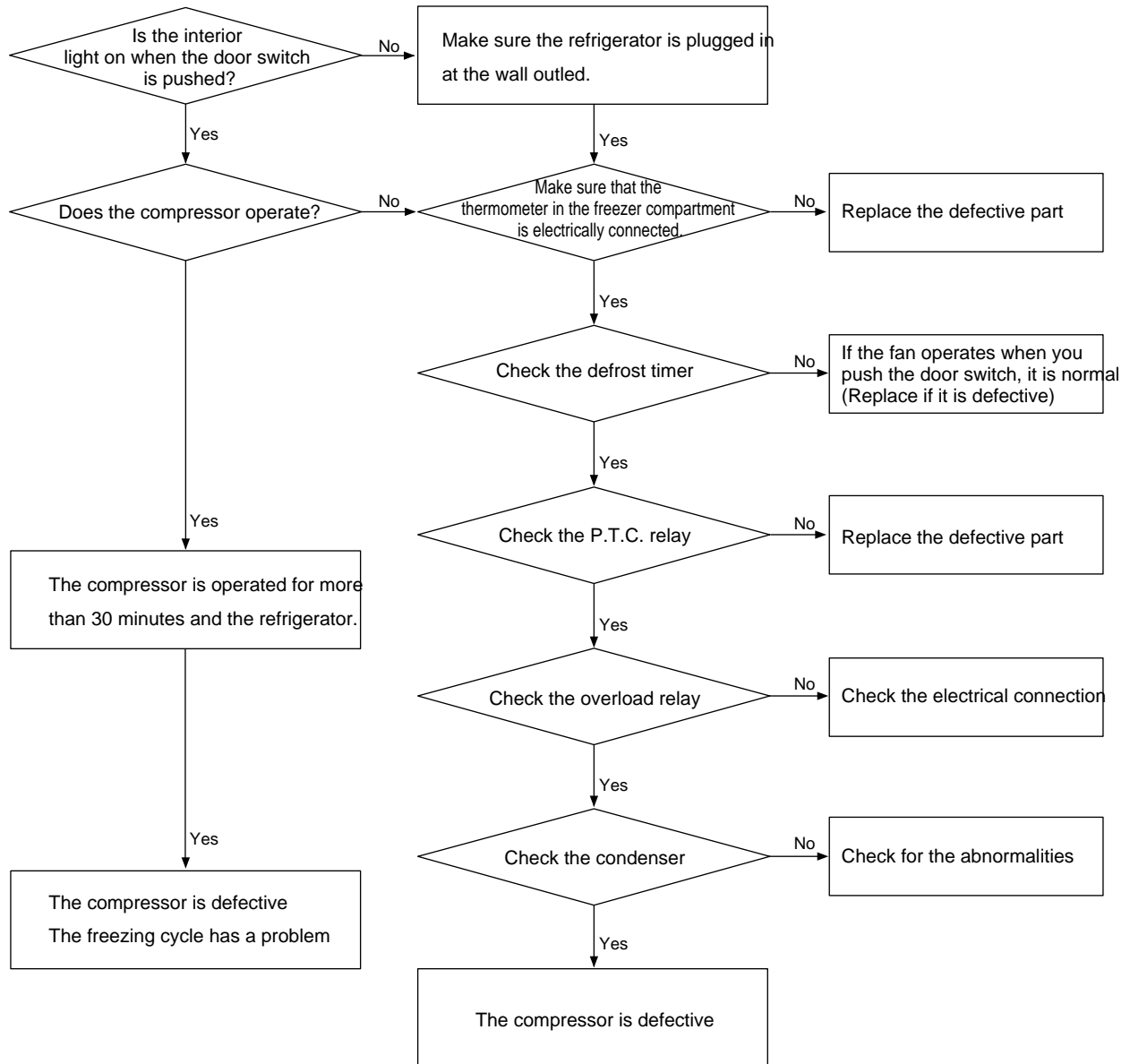
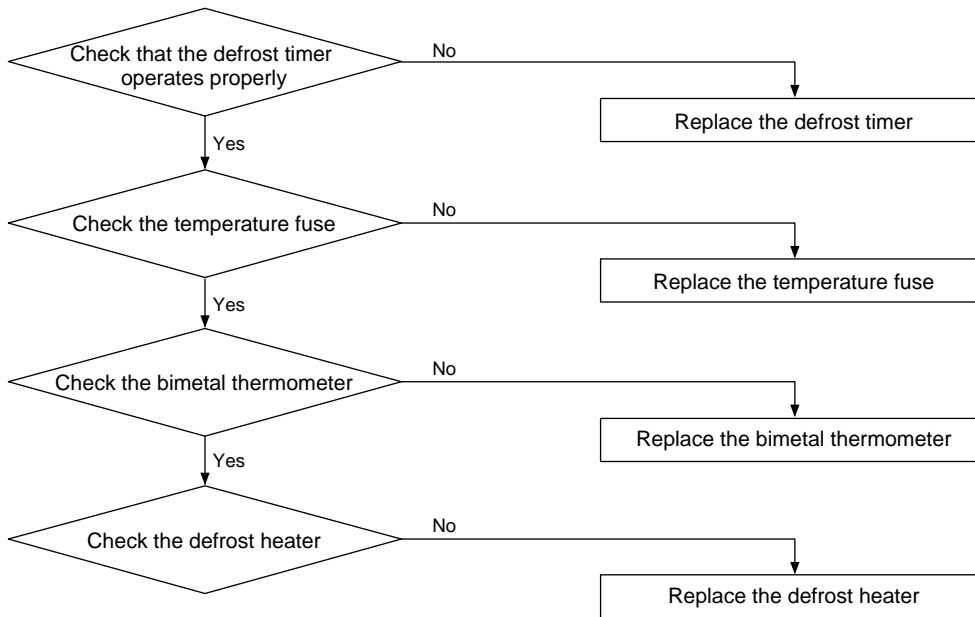


# 10. Troubleshooting method

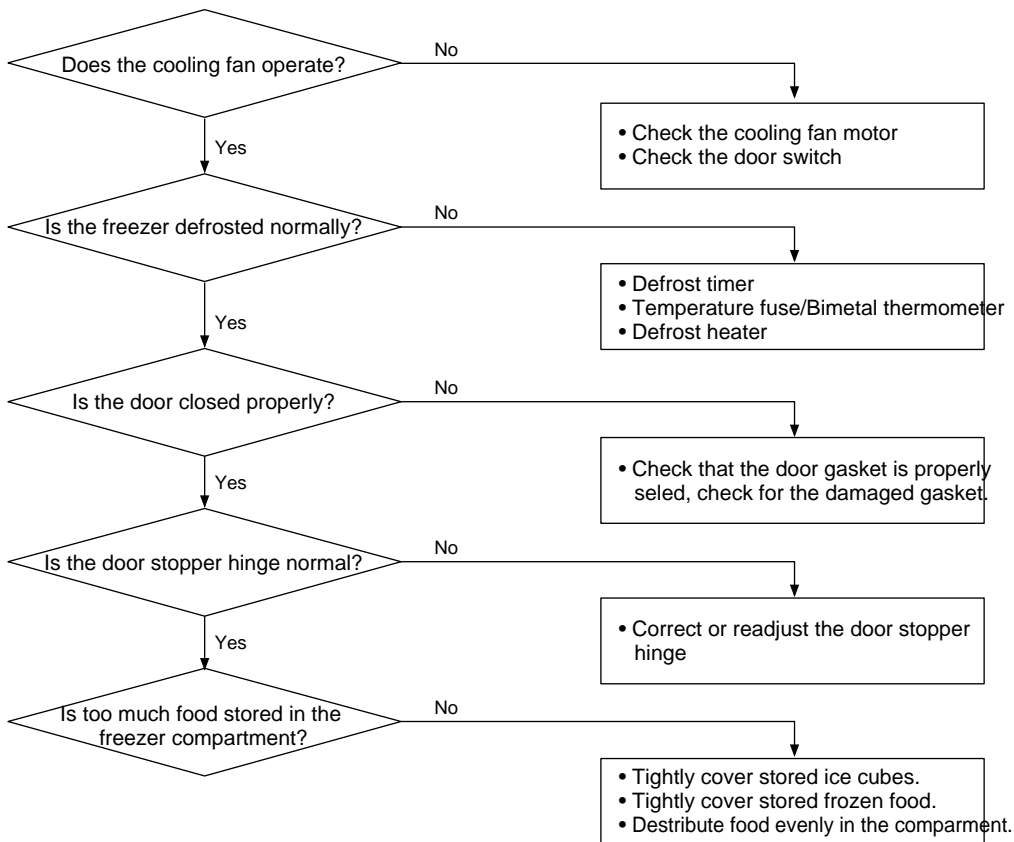
## 10-1 The refrigerator does not operate



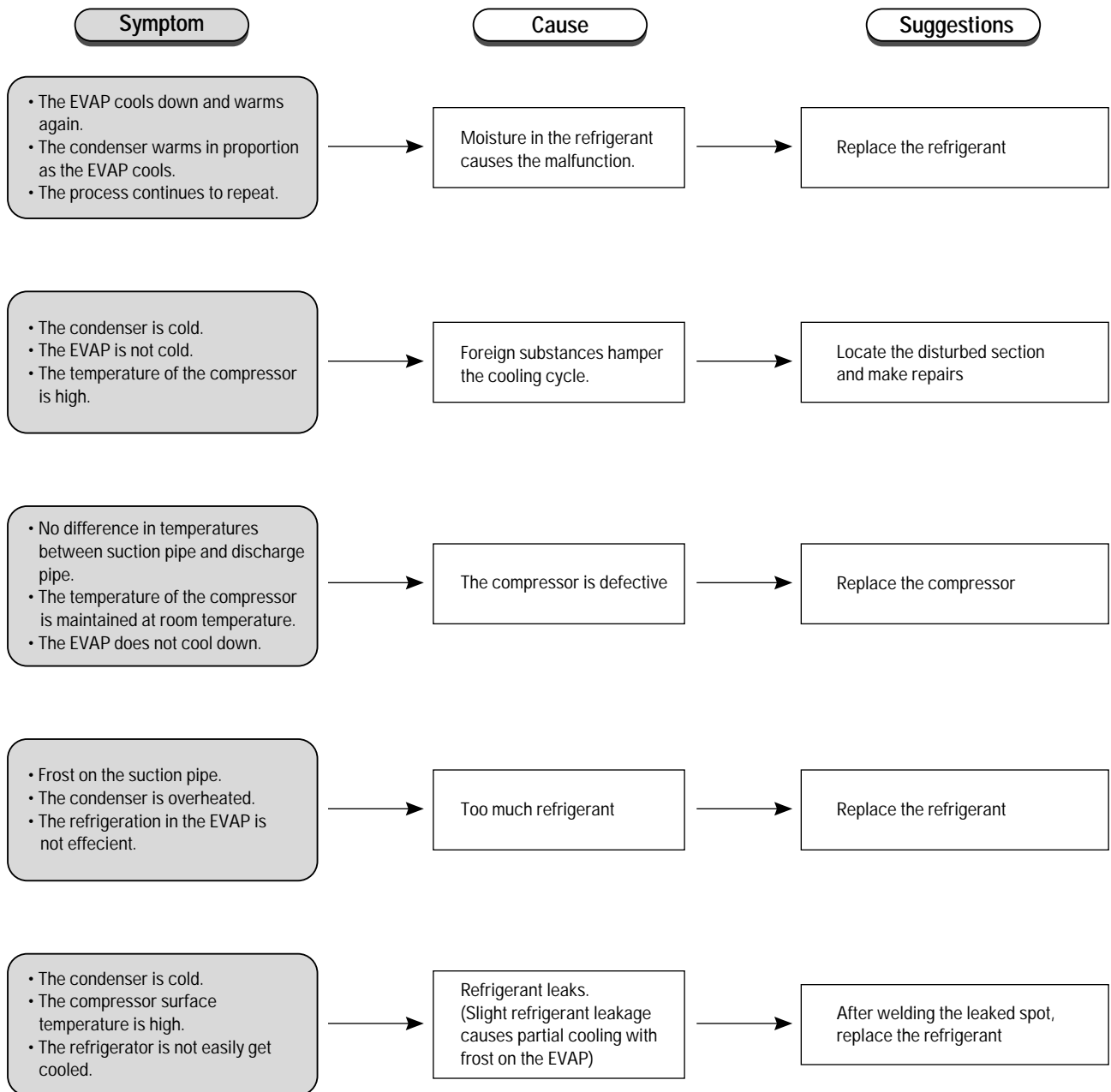
## 10-2 Defrosting mechanism does not work



## 10-3 Defrosting mechanism does not work



## 10-4 Trouble check for the cooling cycle



## 10-5 Diagnosing the main components

Components	Diagnosing methods and criteria	Location								
Compressor	<ul style="list-style-type: none"> <li>Use the tester to measure the resistance.                             <ul style="list-style-type: none"> <li>Bring the component to cool down completely before measuring.</li> </ul> </li> </ul> <table border="1"> <tr> <td>Measuring point</td> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>Primary wire</td> <td>Approx 10 ~</td> <td rowspan="2">0 and</td> </tr> <tr> <td>Secondary wire</td> <td>500k</td> </tr> </table>	Measuring point	Normal	Abnormal	Primary wire	Approx 10 ~	0 and	Secondary wire	500k	Mechanical compartment
Measuring point	Normal	Abnormal								
Primary wire	Approx 10 ~	0 and								
Secondary wire	500k									
P.T.C Relay	<ul style="list-style-type: none"> <li>Use the tester to measure the resistance.                             <ul style="list-style-type: none"> <li>Bring the component to cool down completely before measuring.</li> </ul> </li> </ul> <table border="1"> <tr> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>Approx ~ k</td> <td>0 and</td> </tr> </table>	Normal	Abnormal	Approx ~ k	0 and	Mechanical compartment				
Normal	Abnormal									
Approx ~ k	0 and									
Condenser	<ul style="list-style-type: none"> <li>Use the tester to measure the resistance.                             <ul style="list-style-type: none"> <li>Bring the component to cool down completely before measuring.</li> </ul> </li> </ul> <table border="1"> <tr> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>Approx 10 ~ 80k</td> <td>0 and</td> </tr> </table>	Normal	Abnormal	Approx 10 ~ 80k	0 and	Electrical equipment box				
Normal	Abnormal									
Approx 10 ~ 80k	0 and									
Overload relay	<ul style="list-style-type: none"> <li>Use the tester to measure the resistance.</li> </ul> <table border="1"> <tr> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>Approx 200k</td> <td>0 and</td> </tr> </table>	Normal	Abnormal	Approx 200k	0 and	Mechanical compartment				
Normal	Abnormal									
Approx 200k	0 and									
Circuit-motor & Fan-motor	<ul style="list-style-type: none"> <li>Use the tester to measure the resistance.                             <ul style="list-style-type: none"> <li>Bring the component to cool down completely before measuring.</li> </ul> </li> </ul> <table border="1"> <tr> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>Approx 100 ~ 20k</td> <td>0 and</td> </tr> </table>	Normal	Abnormal	Approx 100 ~ 20k	0 and	Mechanical compartment Freezing compartment				
Normal	Abnormal									
Approx 100 ~ 20k	0 and									
Rotating blade geared-motor	<ul style="list-style-type: none"> <li>Use the tester to measure the resistance.                             <ul style="list-style-type: none"> <li>Bring the component to cool down completely before measuring.</li> </ul> </li> </ul> <table border="1"> <tr> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>Approx 10 ~ 20k</td> <td>0 and</td> </tr> </table>	Normal	Abnormal	Approx 10 ~ 20k	0 and	Refrigerating compartment				
Normal	Abnormal									
Approx 10 ~ 20k	0 and									
Door switch	<ul style="list-style-type: none"> <li>Use the tester to measure the resistance.</li> </ul> <table border="1"> <tr> <td>Measuring point</td> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>A B contact point</td> <td rowspan="2">Approx 200M</td> <td rowspan="2">M and</td> </tr> <tr> <td>When the switch is on by the contact</td> </tr> </table>	Measuring point	Normal	Abnormal	A B contact point	Approx 200M	M and	When the switch is on by the contact	Between the upper and the lower doors	
Measuring point	Normal	Abnormal								
A B contact point	Approx 200M	M and								
When the switch is on by the contact										
Defrost timer	<ul style="list-style-type: none"> <li>Use the tester to measure the resistance.</li> </ul> <table border="1"> <tr> <td>Measuring point</td> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>Between terminals</td> <td>Approx 200K</td> <td rowspan="2">0 and</td> </tr> <tr> <td>Temperature fuse terminal</td> <td>Approx 10 ~300K</td> </tr> </table>	Measuring point	Normal	Abnormal	Between terminals	Approx 200K	0 and	Temperature fuse terminal	Approx 10 ~300K	Electrical equipment box
Measuring point	Normal	Abnormal								
Between terminals	Approx 200K	0 and								
Temperature fuse terminal	Approx 10 ~300K									
Defrost heater	<ul style="list-style-type: none"> <li>Use the tester to measure the resistance.                             <ul style="list-style-type: none"> <li>Bring the component to cool down completely before measuring.</li> </ul> </li> </ul> <table border="1"> <tr> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>Approx 3K ~ 6K</td> <td>M ~</td> </tr> </table>	Normal	Abnormal	Approx 3K ~ 6K	M ~	Lower EVAP				
Normal	Abnormal									
Approx 3K ~ 6K	M ~									
Bimetal Temperature fuse	<ul style="list-style-type: none"> <li>Use the tester to measure the resistance.</li> </ul> <table border="1"> <tr> <td>Measuring point</td> <td>Normal</td> <td>Abnormal</td> </tr> <tr> <td>Bimetal terminal</td> <td rowspan="2">Approx 200M</td> <td rowspan="2">~</td> </tr> <tr> <td>Temperature fuse terminal</td> </tr> </table>	Measuring point	Normal	Abnormal	Bimetal terminal	Approx 200M	~	Temperature fuse terminal	EVAP	
Measuring point	Normal	Abnormal								
Bimetal terminal	Approx 200M	~								
Temperature fuse terminal										