

6. Troubleshooting

1. Prior to repair, restart the appliance to conduct self-inspection;
2. Any defective part found will be listed as below:

NO	Item	DISGPLAY	Problem	Remarks
1	Fridge Sensor	88	Open circuit Short circuit	Detected below -50°C Detected above +65°C
2	Defrost Sensor	-88	Open circuit Short circuit	Detected below -50°C Detected above +65°C
3	Freezer Sensor	-88	Open circuit Short circuit	Detected below -50°C Detected above +65°C
4	External Environment Sensor	-88	Open circuit Short circuit	Detected below -50°C Detected above +65°C

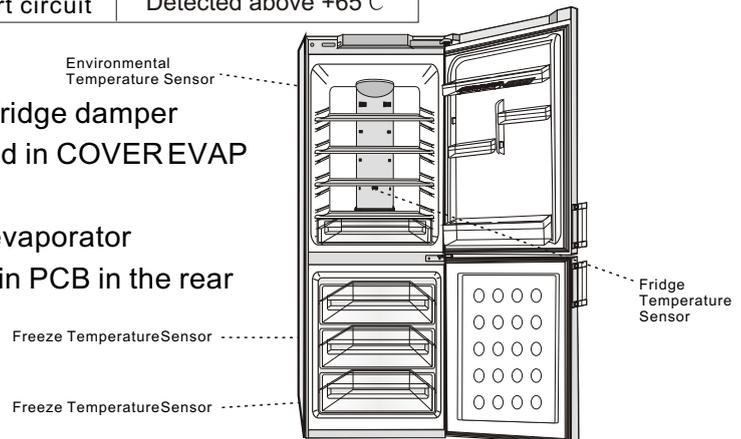
3. The sensors are located as below:

Fridge Temperature Sensor---- above fridge damper

Freeze Temperature Sensor ---- inserted in COVER EVAP
REAR

Defrost Sensor---- inserted in freezer evaporator

External Environment Sensor ---- in Main PCB in the rear



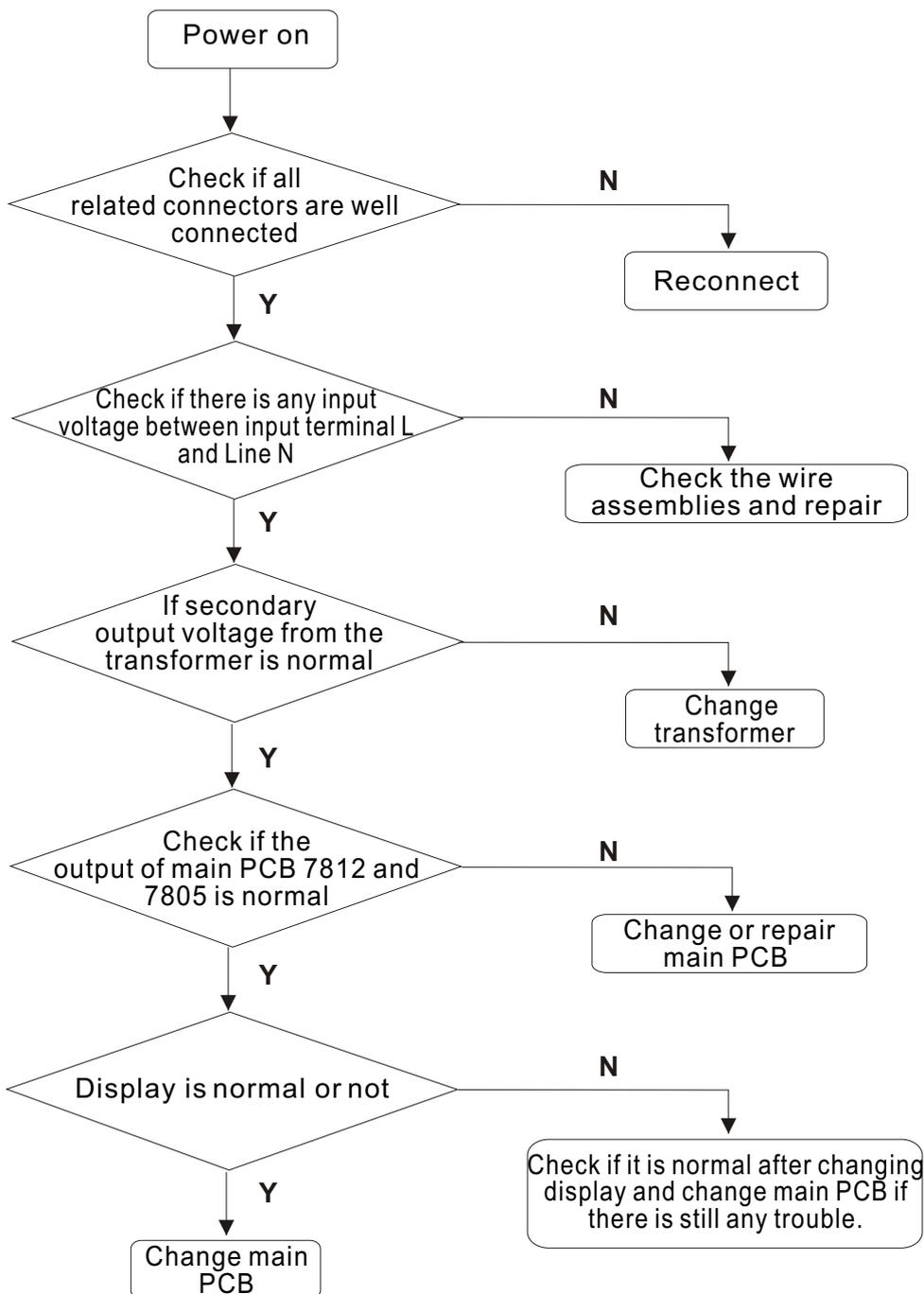
4. The sensor resistance and chip voltage of the sensors under various temperatures:

T	R	V	T	R	V	T	R	V	T	R	V
-50	161.5	4.708	-25	42.49	4.047	0	12.99	2.825	25	4.871	1.637
-49	152.4	4.692	-24	40.48	4.009	1	12.45	2.772	26	4.700	1.598
-48	143.8	4.674	-23	38.72	3.973	2	11.94	2.721	27	4.536	1.560
-47	135.9	4.657	-22	35.00	3.888	3	11.45	2.668	28	4.379	1.522
-46	128.4	4.638	-21	33.37	3.847	4	10.99	2.617	29	4.288	1.500
-45	121.4	4.619	-20	31.81	3.804	5	10.55	2.566	30	4.082	1.449
-44	114.8	4.599	-19	30.32	3.759	6	10.13	2.516	31	3.943	1.413
-43	108.7	4.578	-18	28.92	3.715	7	9.726	2.465	32	3.808	1.378
-42	102.9	4.557	-17	27.59	3.669	8	9.343	2.415	33	3.680	1.345
-41	97.46	4.534	-16	26.34	3.624	9	8.978	2.365	34	3.556	1.311
-40	92.36	4.511	-15	25.15	3.577	10	8.625	2.315	35	3.437	1.278
-39	87.46	4.486	-14	24.02	3.530	11	8.288	2.265	36	3.323	1.247
-38	82.86	4.461	-13	22.95	3.482	12	7.966	2.216	37	3.213	1.215
-37	78.54	4.435	-12	21.94	3.434	13	7.659	2.168	38	3.108	1.185
-36	74.47	4.408	-11	20.97	3.385	14	7.366	2.120	39	3.007	1.155
-35	70.65	4.438	-10	20.05	3.336	15	7.086	2.073	40	2.909	1.126
-34	67.06	4.351	-9	19.17	3.285	16	6.819	2.027	41	2.814	1.098
-33	63.67	4.321	-8	18.34	3.235	17	6.563	1.981	42	2.724	1.070
-32	60.48	4.290	-7	17.55	3.185	18	6.318	1.935	43	2.636	1.043
-31	57.48	4.259	-6	16.79	3.133	19	6.085	1.891	44	2.552	1.016
-30	54.65	4.226	-5	16.08	3.082	20	5.859	1.847	45	2.471	0.990
-29	51.92	4.192	-4	15.40	3.031	21	5.643	1.803	46	2.394	0.965
-28	49.35	4.157	-3	14.75	2.979	22	5.437	1.761	47	2.319	0.941
-27	46.98	4.122	-2	14.14	2.928	23	5.239	1.718	48	2.247	0.917
-26	44.65	4.085	-1	13.56	2.877	24	5.050	1.677	49	2.177	0.893

6-1 Self-inspection

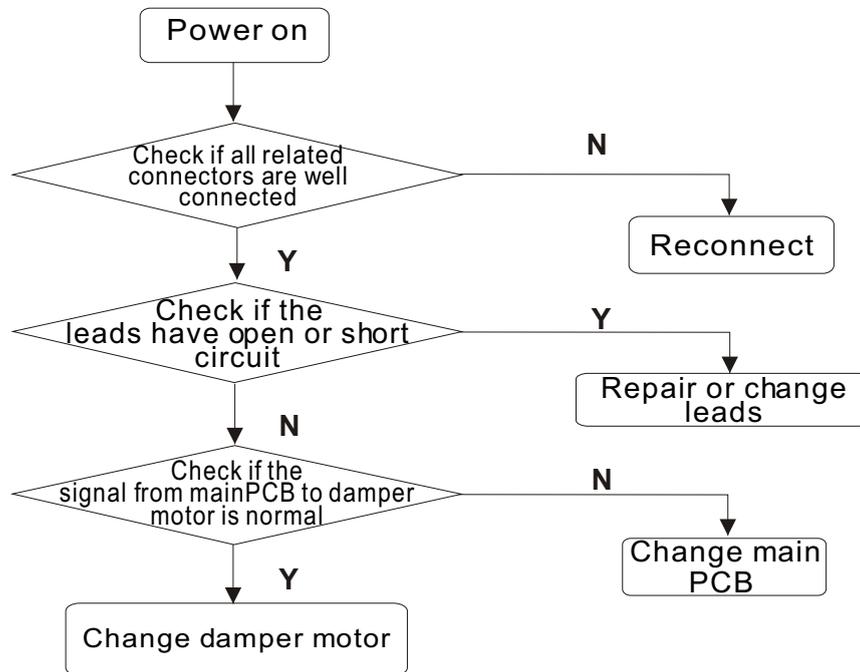
6-1-1 No reaction when connecting to power

1. Prior to repair, check if the current voltage and power connection are normal.

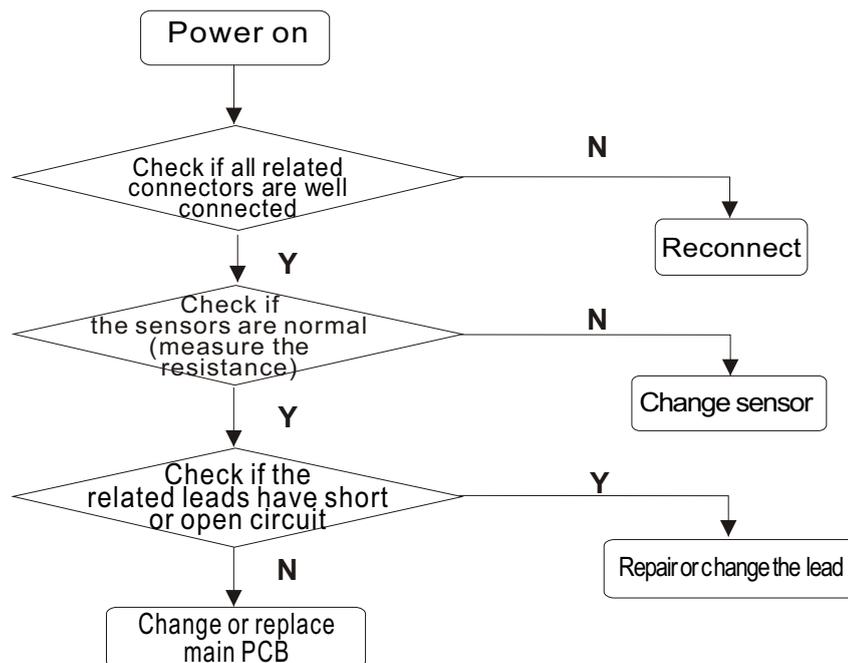


6-2 When troubles occur

6-2-1 when damper motor has defects



6-2-2 Defective Sensor



6-2-3. Defective Door Switch

