TESTING AND DIAGNOSIS

ITC TEST MODE

The Air Baffle Module functions can be checked in the following manner:

1. Verify that the product is not in defrost.

2. Open the refrigerator and freezer doors and allow the unit to warm up enough totrip the refrigerator and freezer thermostats. When both the freezer and refrigerator thermostats call for cooling, the baffle door should open.

3. Note the thermostat settings and remove the control box front cover.

4. Set the controls in the following manner. Check for the given results:

Settings:

a. Move the freezer thermostat control to the far right

b. Move the refrigerator thermostat control the the far left.

Results:

Air Baffle - In 15 seconds the baffle should be fully closed.
Compressor - ON
Condenser Fan - ON
Evaporator Fan - ON

Settings:

a. Freezer Thermostat Control to the far right

b. Refrigerator Thermostat Control to the far right

Results:

Air Baffle - In 15 seconds the baffle should be fully open.
Evaporator Fan - ON
Compressor - ON
Condenser Fan - ON

If the given results do not occur, check all electrical components. Evaluate all wiring connections, the freezer thermostat, the refrigerator thermostat, the defrost timer, the evaporator fan, the condenser fan and the compressor. If these components all check out good, the following procedure will allow a complete evaluation of the component inside the Air Baffle Module.

Motorized Air Baffle Assembly Test: (Make sure to notice the position of the air baffle door - OPEN or CLOSED)

Air Baffle OPEN:

Continuity between terminals 3 & 2 (checks S3)

No continuity between terminals 1 & 2 (checks S3)

Approximately 8,200 ohms resistance between terminals 4 & 6.
(This varifies continuity through S1 and resistance through the Air Door Motor)

No continuity between terminals 3 & 6 (checks S2)

Air Baffle CLOSED:

Continuity between terminals 1 & 2 (checks S3)

No continuity between terminals 3 & 2 (checks S3)

Approximately 8,200 ohms resistance between terminals 3 & 6.
(This varifies continuity through S2 and resistance through the Air Door Motor)

No continuity between terminals 4 & 6 (checks S2)

NOTE: Do not attempt to repair the Module. Replace the entire baffle assembly.

Thermostat Test

Auxillary Switch:

NOTE: The auxillary switch is found inside the freezer thermostat housing. It operates independently of the freezer thermostat.

In ON position:	Continuity between terminals 3 & 2
In Off position:	No continuity between terminals 3 & 2.

Freezer Thermostat:

In CLOSED position (Calling for Cooling):	Continuity between terminals 2 & 1
In OPEN position (Satisfied):	No continuity between terminals 2 & 1.

Refrigerator Thermostat:

In COLDER position (Calling for Cooling):	Continuity between terminals 2 & 1 No continuity between terminals 2 & 3
In COLD position (Satisfied):	Continuity between terminals 2 & 3 No continuity between terminals 2 & 1

REPLACING THE BAFFLE MODULE

NOTE: When replacing the Air Baffle Assembly, note the routing and location of the freezer and refrigerator temperature sensing tubes. Be sure to replace the tubes in their same locations or the refrigerator/freezer will not operate properly.

⚠ WARNING

DISCONNECT POWER BEFORE SERVICING

FAILURE TO DO SO MAY RESULT IN SRIOUS INJURY OR DEATH

Instructions:

1. Remove the screw securing the conduit cover over the wiring harness from the top left edge of the refrigerator section. *(Fig. 22)*

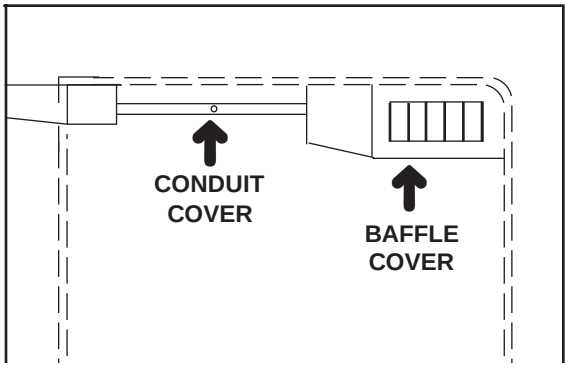

Figure 22
(Refrigerator Compartment)

2. Remove the screw securing the plastic covering over the Baffle Module. *(Fig. 23)*

3. Disconnect the two harness plugs from the Baffle Module.

4. Remove the light lens and air scoop assembly from the back of the freezer section. *(Fig. 23)*

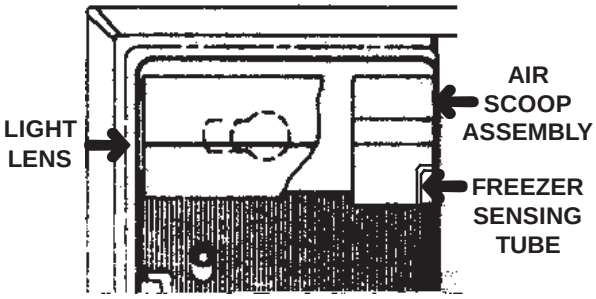

Figure 23
(Freezer Compartment)

5. Carefully guide the freezer compartment temperature sensing tube from its position as the Baffle Assembly is pulled from the compartment wall in the refrigerator section.

6. Carefully unwrap the refrigerator compartment temperature sensing tube from air defuser.

7. Unsnap the baffle assembly from the air duct.

8. the Baffle Assembly is not serviceable and must be replaced as a unit. To reinstall, reverse the instructions above.