

634737 RECALL KIT - HTS DIAGNOSTIC PROCEDURES

WARNING! Do NOT disconnect or bypass the HTS when servicing! Refrigerators can cause a fire resulting in property damage, injury or death if this HTS safety device is disabled.

WARNING! Information provided is ONLY intended for professional technicians, trained and qualified in the safe repair practices and operation of AC (110V), DC electrical, and LP gas components.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage!

Purpose:

This service bulletin is intended to provide safe procedures and troubleshooting steps that provide diagnostic procedures to aide service personnel in identifying the root cause of:

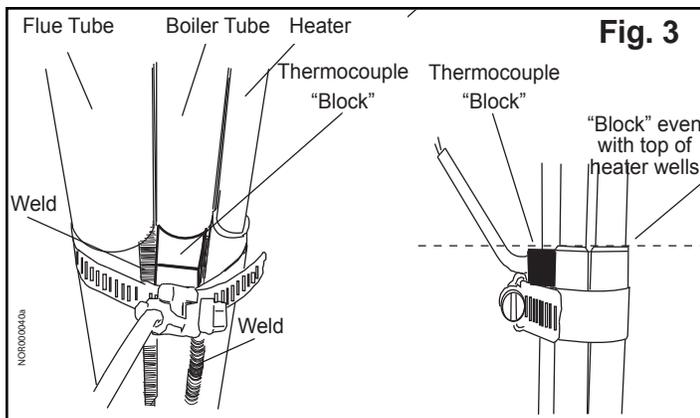
- A BLANK DISPLAY (Refrigerator will not turn on) on 1200 model refrigerators fitted with a 634737 RECALL KIT - HTS.
- A LI oP error code on a 1200 model refrigerator fitted with a controls adapter kit and a 634737 RECALL KIT - HTS.
- A LI oP error code on 1210 model refrigerators fitted with a 634737 RECALL KIT - HTS and/or a factory installed kit.

Models Affected:

1200 and/or 1210 model refrigerators fitted with a field or factory installed HTS (High Temperature Sensor).

Tools Needed

- Nut Driver Set
- Volt Meter
- Long Blade Razor Knife
- Litmus paper

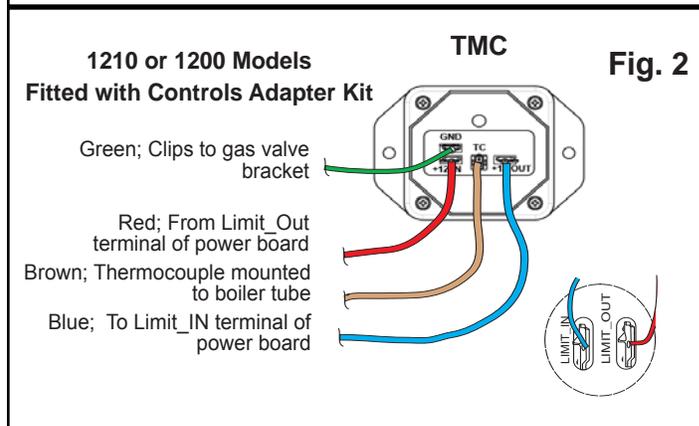
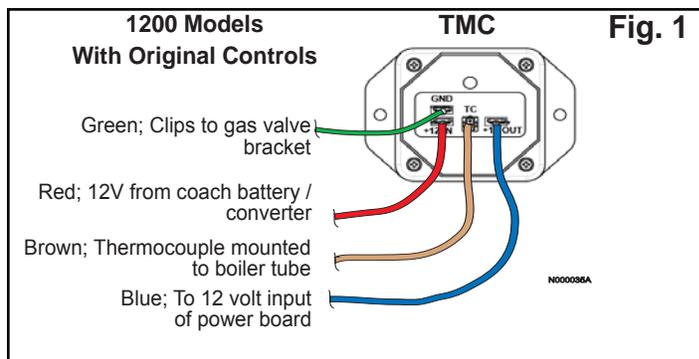


Procedures:

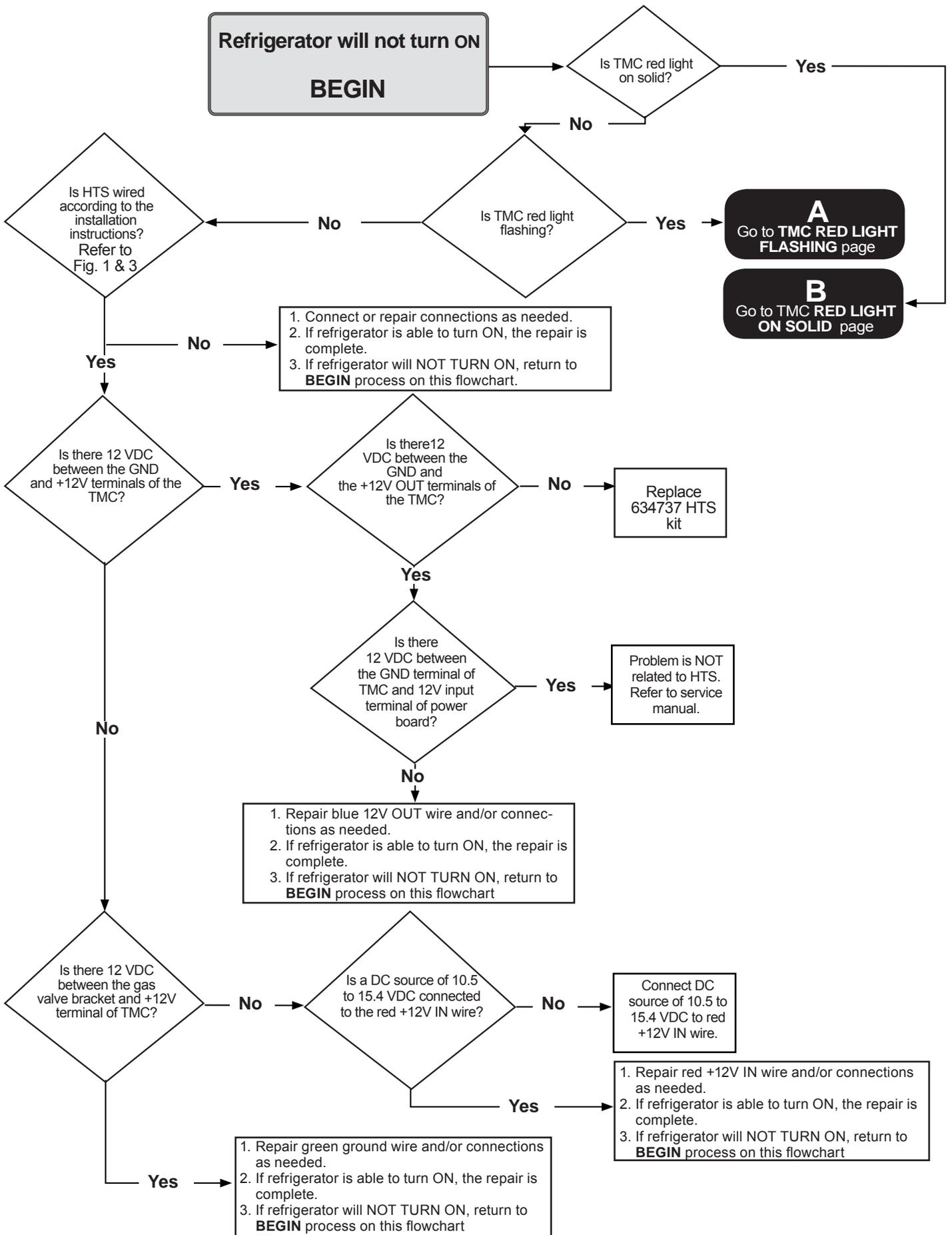
- **1200 Model Refrigerators With Blank Display**
Follow the *1200 Blank Display - Refrigerator Will Not Turn On Diagnostic Flowchart* procedure. Refer to Fig. 1 for configuration.
- **1200 Model Refrigerators - With LI oP Display**
Follow the *LI oP Error Code Diagnostic Flowchart* procedure. Refer to Fig. 2 for configuration.
NOTE: If a 1200 model refrigerator displays the LI oP error, it is because the refrigerator has been retrofitted with a controls adapter kit.
- **1210 Model Refrigerators**
Follow the *LI oP Error Code Diagnostic Flowchart* procedure. Refer to Fig. 2 for configuration.

Acronyms and Terms

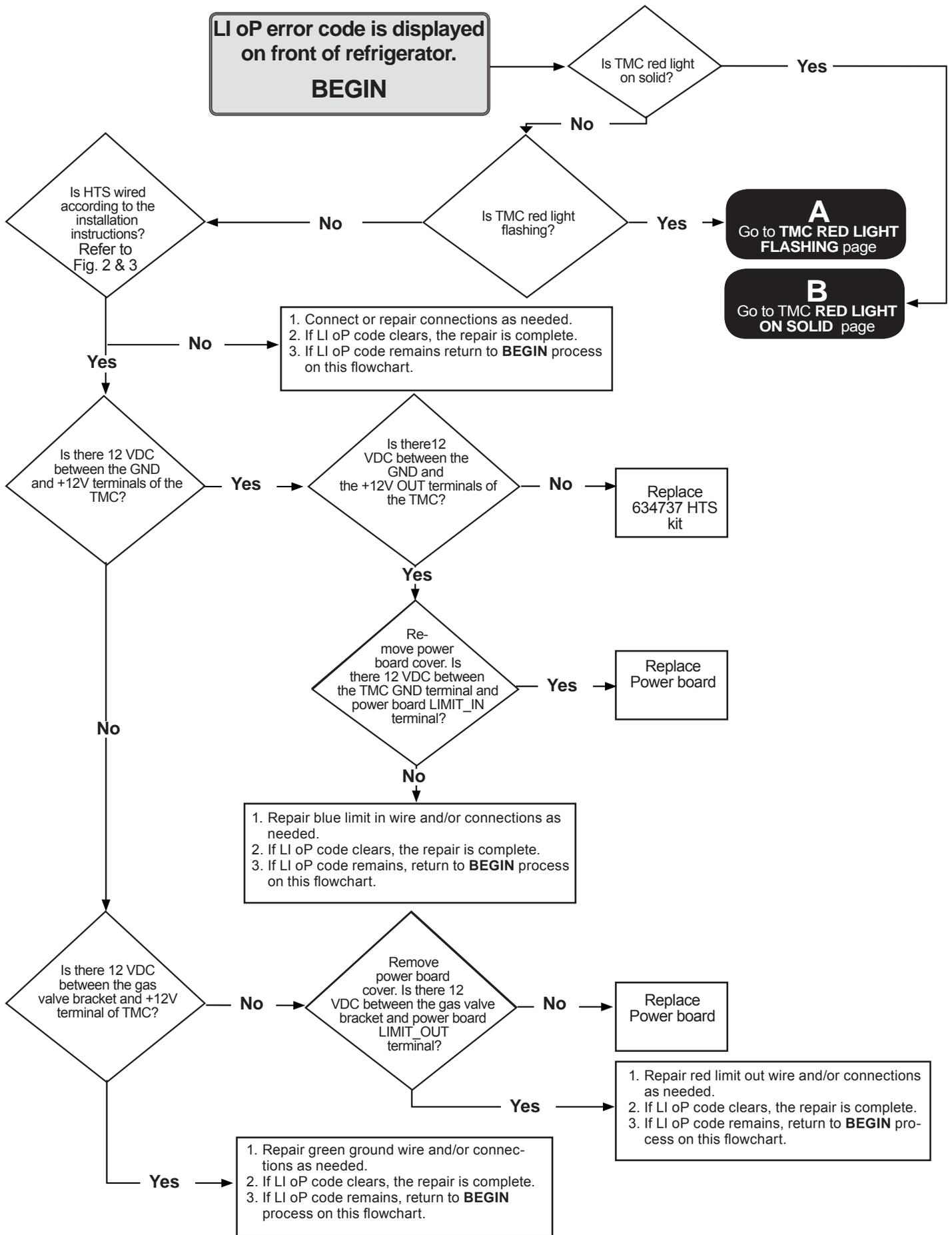
- **HTS (High Temperature Sensor):**
Refers to the 634737 RECALL KIT - HTS and/or factory installed kit.
- **TMC (Temperature Monitoring Control):**
Refers to the electronic control box ("black-box") that is a part of the 634677 RECALL KIT - HTS and/or factory installed kit.
- **Thermocouple:**
Refers to the temperature sensor (with muffler clamp) that is mounted to the boiler tube.



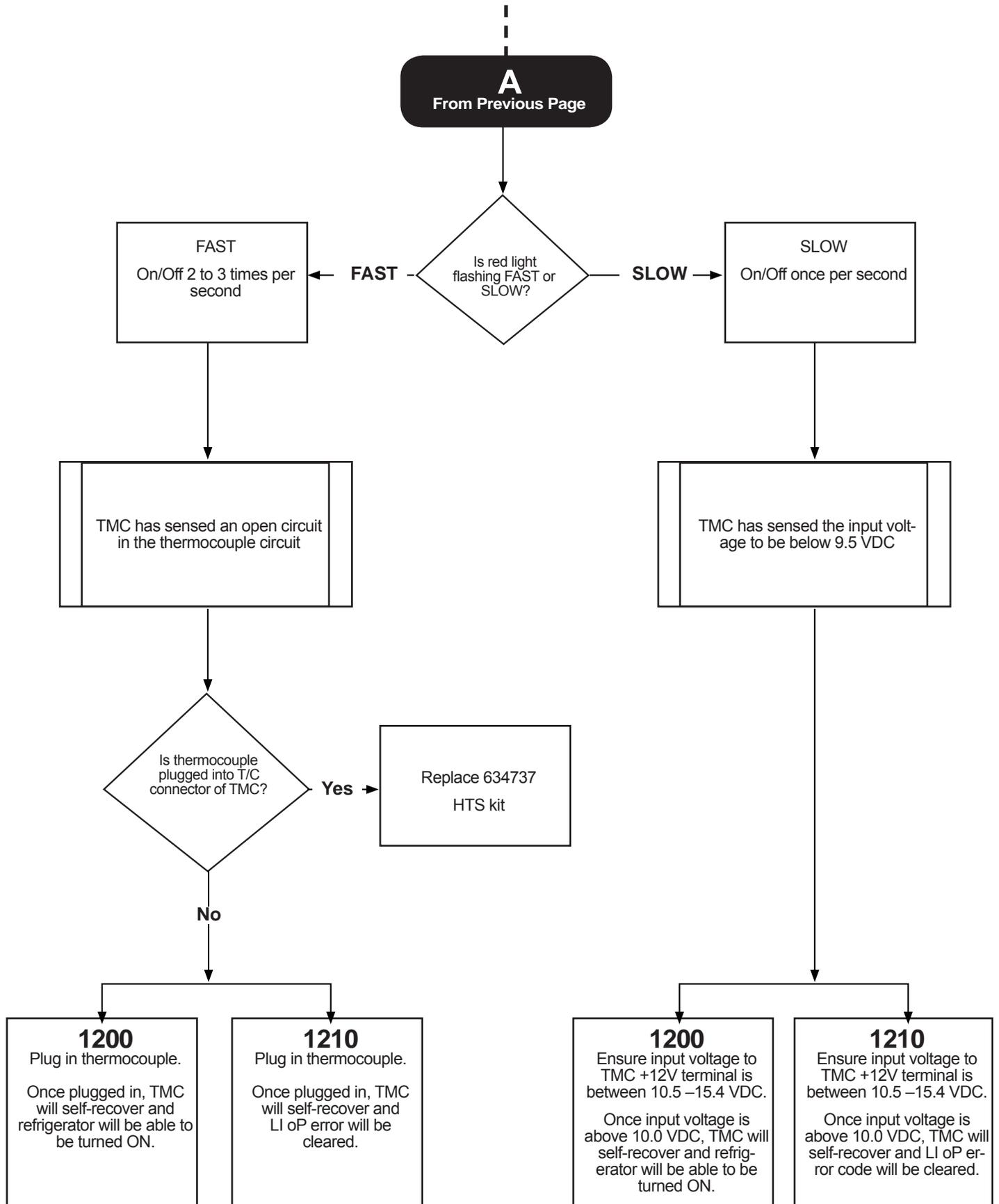
1200 Blank Display - Refrigerator Will Not Turn On Diagnostic Flowchart



LI oP Error Code Diagnostic Flowchart

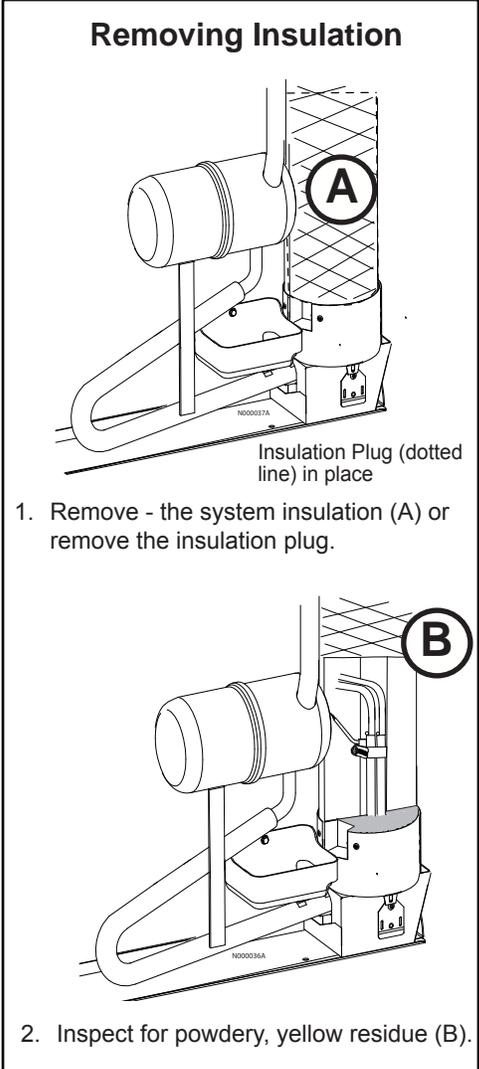
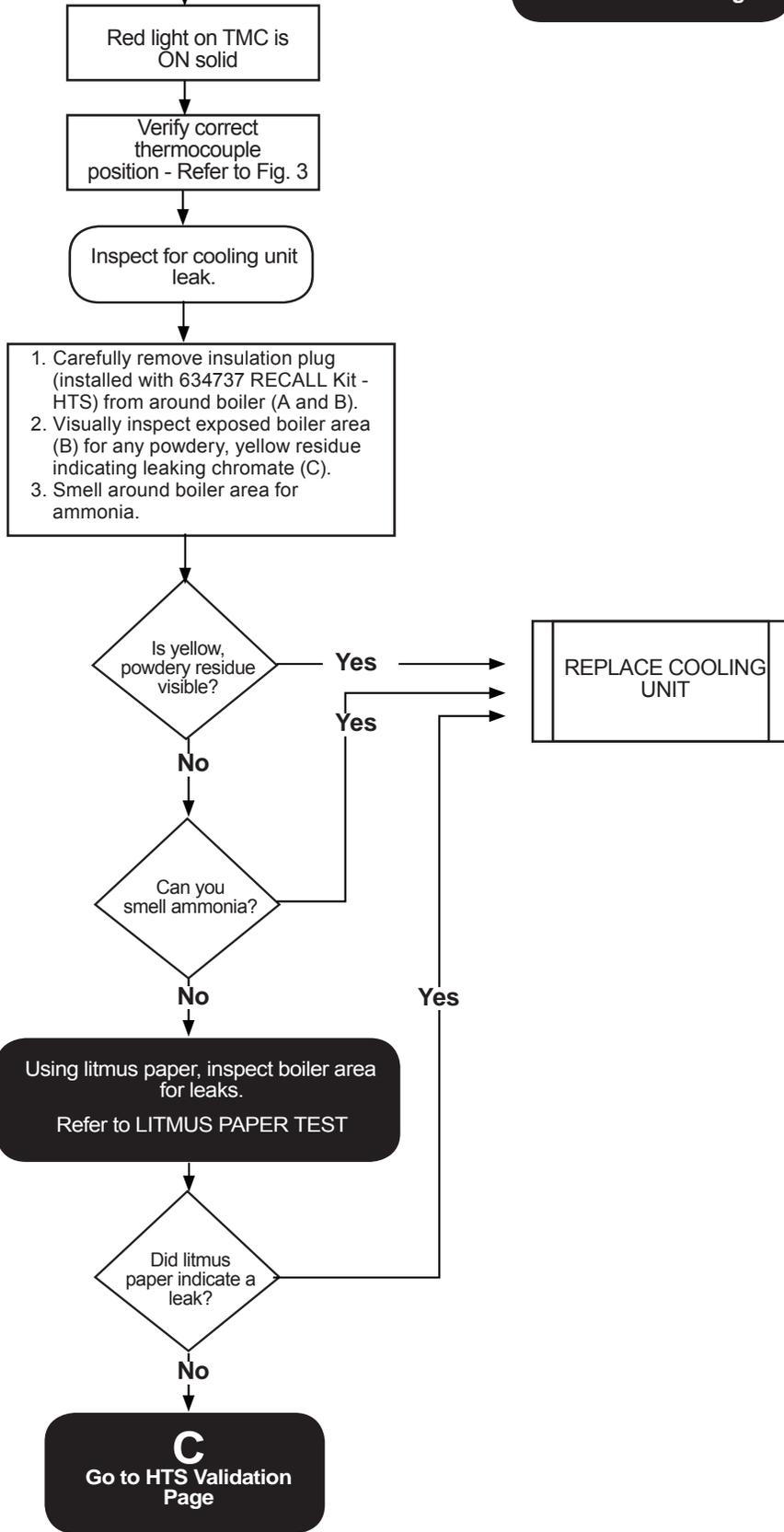


TMC Red Light Flashing

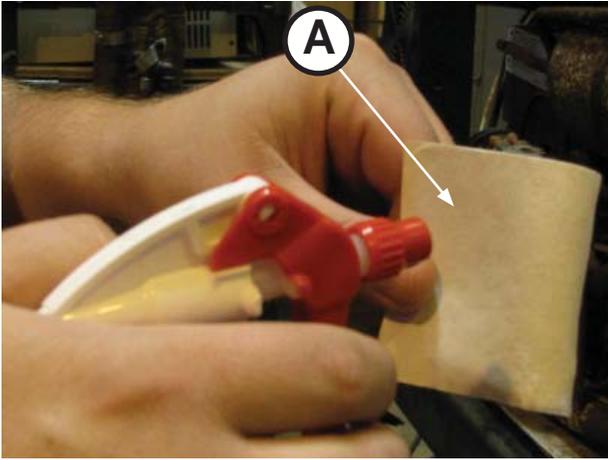


Red Light on Solid

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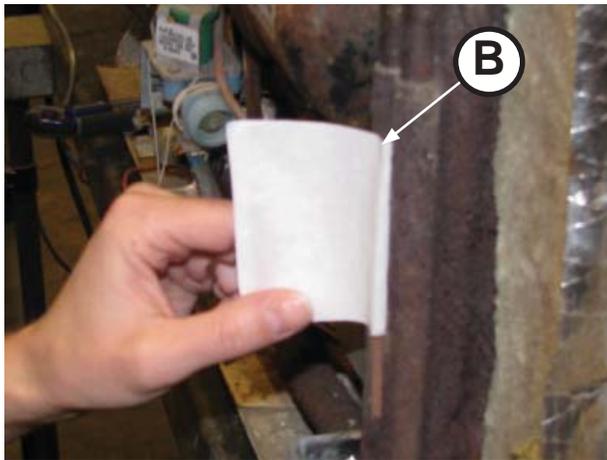


Litmus Paper Test



1. Apply a light spray of water to the litmus paper (A).
2. Ensure that the litmus paper remains wet throughout test procedure.

3. Dab, press, wipe the litmus paper onto entire surface area of exposed boiler (B) to include:
 - boiler tube to flue tube welds
 - boiler tube to heater tube welds
 - weld between heater tubes
4. Closely examine the litmus paper.



5. ANY reddish / purplish color (C) appearing on the litmus paper indicates the presence of ammonia - the cooling unit is leaking and must be replaced!

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WARNING!

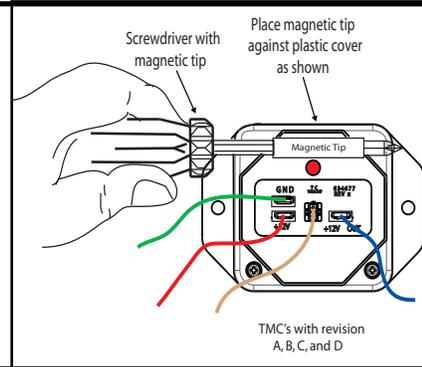
DO NOT attempt this HTS Validation unless you have **ALREADY FOLLOWED** Page 5 instructions and determined that the cooling unit **DOES NOT HAVE A LEAK. OTHERWISE, THERE IS A SERIOUS RISK OF FIRE** that can result in property damage, personal injury or death.

Clear the TMC Lockout State

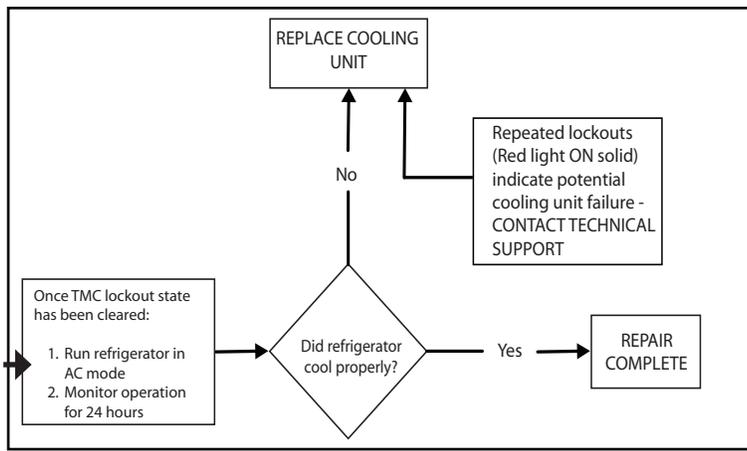
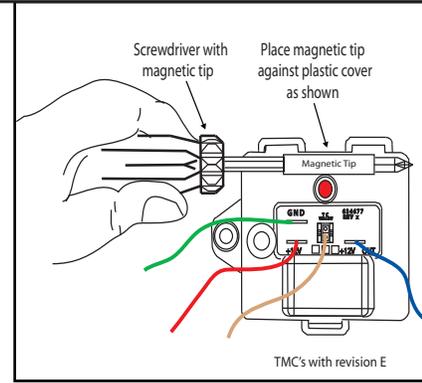
Clear the TMC lockout state (Red light ON solid) described below to validate TMC functionality. The TMC is the black box control portion of the HTS kit.

Note: In order to clear the TMC lockout state (Red light ON solid), the conditions listed below must be met. **DO NOT** remove the TMC's plastic cover!!

1. RED light of TMC is ON (Solid)
2. The boiler area of cooling unit (where thermocouple is mounted) has cooled to less than 250°F.
3. A magnet has been positioned as shown below, for 5 seconds.



NOTE: If lockout state does not clear after 5 seconds with magnet in place, try using a stronger magnet.



- Once the lockout state has been cleared, the RED light on the TMC will turn off.
- If the refrigerator is not on, turn it on to further validate the HTS configuration.

Questions? 1-800-444-7210