PURPOSE:
The intention of this FII is to demonstrate how to perform the high limit test which should be done every heating season to ensure the burner will shut down if temperature exceeds 220 °F and to show how to replace the high limit if necessary on an IDF LPNG unit.

TOOLS REQUIRED:

From left to right: Robertson Screwdriver, Ratchet, 5/16 Socket, Cardboard to block airflow (not shown)
PROCEDURE:

**Step 1:** Press the small red button at the center of the manual high limit to reset it. See Figure 1 for an example of resetting the manual high limit.

**NOTE:** If you do not reset the manual high limit and it has already tripped, the burner will not turn on.

**Step 2:** Block the fan inlet of the unit using a cardboard wall cut to size to restrict the air flow in the unit. See Figure 2 for an example of how to block fan inlet.

**NOTE:** The cardboard must be cut to fit around the motor and motor mount of the fan inlet. Multiple cardboard pieces can also be used.

**Step 3:** Turn on the unit as you would normally.

**Step 4:** Let the unit run for 5 minutes to allow for the unit air temperature to increase past the acceptable limit.
**Step 5:** Test result interpretation:

- Only manual high limit trips → Auto high limit is defective.
- Only auto high limit trips → Auto high limit is functioning. Remove auto high limit (by bypassing it using the wiring connections) and conduct the test again to check manual high limit alone.

**Step 6:** To access the high limit switch, you must first remove the cover by unscrewing the two screws at its sides. See Figure 3 for high limit cover location.

**Step 7:** With the high limit exposed, now you can unplug the wiring and remove the screws which directly hold both the high limits to the jacket.

**Step 8:** Pull the high limit you need to replace straight out and replace it with a new high limit of the appropriate temperature setting. See Figure 4 for an example of the disconnected high limits.
<table>
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<tr>
<th>Unit</th>
<th>High Limit Type</th>
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<tbody>
<tr>
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