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Countries: ISIS, Bus ISIS, FleetISIS, Body Builder, IsSIR

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Coding Information

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Title: Applying Advanced Logic Templates

Applies To: All vehicles with BC / ESC

Change Log

Please refer to the change log text box below for recent changes to this article:

11/05/2018 - Added figure 6 for importing a template
10/24/2014 - Initial Article Release

Description

This article will outline how to create a template and apply Advanced Logic using that template. It will also help to identify if Advanced Logic was not applied properly.

When using a template to apply Advanced Logic to another VIN the Advanced Logic should be the only option selected when programming the changes. Checking other options can cause undesired changes to occur.

There are multiple options to apply the Advanced Logic. It is possible to change Features, Parameters, and Switches & Gauge Locations if the Advanced Logic is not applied properly.

- This happens most often when a template is used from a different VIN that has the desired Advanced Logic.
- When the template is applied to the new VIN undesired changes occur.
- A case file will be required to make the necessary corrections. Dealers and Body Builders do not have the required access levels.

Symptom(s)

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC / Light	Description
Not Applicable	

Customer Observations or Concerns:

- EGC Lights not working, such as Wait to Start Lamp.
- Gauges inoperative.
- Gauges reading incorrectly.
- Switches not working.
- Switches labels not matching what the switch is actually controlling.

Special Tool(s) / Software

Tool Description	Tool Number	Comments	Instructions
Diamond Logic Builder		EZ-Tech Software	

Service Parts Information

Kit Description	Part Number	Quantity Required	Notes
Not Applicable			

Diagnostic Step(s)

Step	Action	Decision
#1	<p>DIAGNOSTIC: Verify the vehicle has Advanced Logic installed. Refer to Figure #1.</p> <ul style="list-style-type: none"> Connect with Diamond Logic Builder. View the Advanced Logic tab. <p>Does the vehicle have Advanced Logic applied?</p>	<p>Yes:</p> <ul style="list-style-type: none"> Continue to Step 2.
		<p>No:</p> <ul style="list-style-type: none"> Follow normal troubleshooting procedures for the customer's complaint.
Step	Action	Decision
#2	<p>DIAGNOSTIC: Check the Messages tab to see how the Advanced Logic was applied. Refer to Figure #2.</p> <p>Does the Message tab show any improper changes when the Advanced Logic was added?</p>	<p>Yes:</p> <ul style="list-style-type: none"> Open a Tech Service case file and request assistance to revert the changes and have the Advanced Logic re-applied properly.
		<p>No:</p> <ul style="list-style-type: none"> Continue to Step 3.
Step	Action	Decision
#3	<p>DIAGNOSTIC: Check the Electronic Gauge Cluster light configuration in Diamond Logic Builder and verify it matches the physical light location on the truck. Refer to Figure #3, Item 1.</p> <p>Are any of the lights in the incorrect location?</p>	<p>Yes:</p> <ul style="list-style-type: none"> Open a Tech Service case file and request assistance to revert the changes and have the Advanced Logic re-applied properly.
		<p>No:</p> <ul style="list-style-type: none"> All EGC lights are in the correct location. Continue to Step 4.
Step	Action	Decision
#4	<p>DIAGNOSTIC: Check the Electronic Gauge Cluster gauge configuration in Diamond Logic Builder and verify it matches the physical gauge location on the truck. Refer to Figure #3, Item 2.</p> <p>Are any of the lights in the incorrect location?</p>	<p>Yes:</p> <ul style="list-style-type: none"> It is possible the gauges were changed, and the Advanced Logic is correct. Dealer and Body Builder level access does allow changing gauge locations. Dealers and Body Builders cannot see all of the programming history for configuration changes. If you suspect there may be an issue with a template being applied: Open a Tech Service case file and request assistance to review programming history and possibly revert any changes and have the Advanced Logic re-applied properly.
		<p>No:</p> <ul style="list-style-type: none"> All EGC lights are in the correct location. Continue to Step 5.
Step	Action	Decision
#5	<p>DIAGNOSTIC:</p>	<p>Yes:</p>

Check the Switch Pack Switches in the center panel in Diamond Logic Builder and verify it matches the physical switch location on the truck.

Refer to [Figure #4](#).

Are any of the switches in the incorrect location?

- It is possible the switches were changed, and the Advanced Logic is correct. Dealer and Body Builder level access does allow changing switch locations.
- Dealers and Body Builders cannot see all of the programming history for configuration changes. If you suspect there may be an issue with a template being applied:
- Open a Tech Service case file and request assistance to review programming history and possibly revert any changes and have the Advanced Logic re-applied properly.

No:

- All switches are in the proper location. No fault noted with the Advanced Logic installation. Troubleshoot complaint.

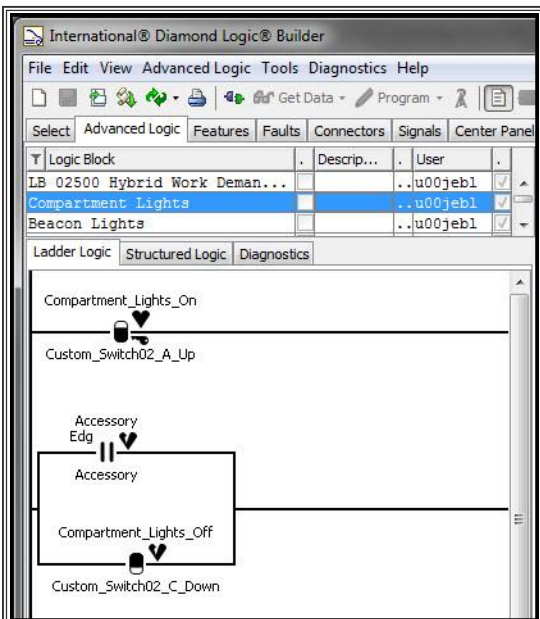


Figure #1: Advanced Logic Tab

This example shows Advanced Logic is installed.

([Return to Step 1](#))

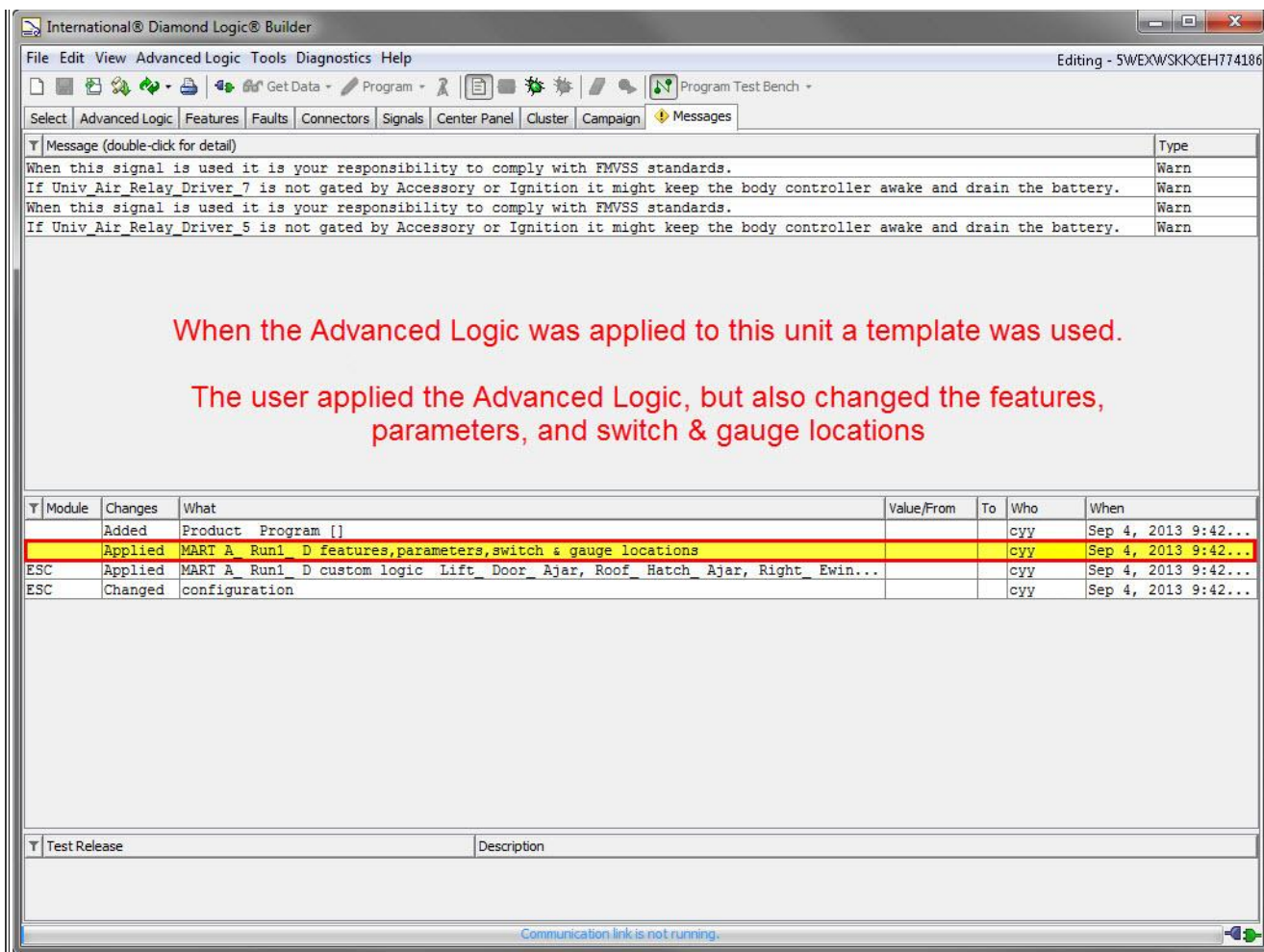


Figure #2: Messages tab

This example shows Advanced Logic was installed improperly.
 ([Return to Step 2](#))

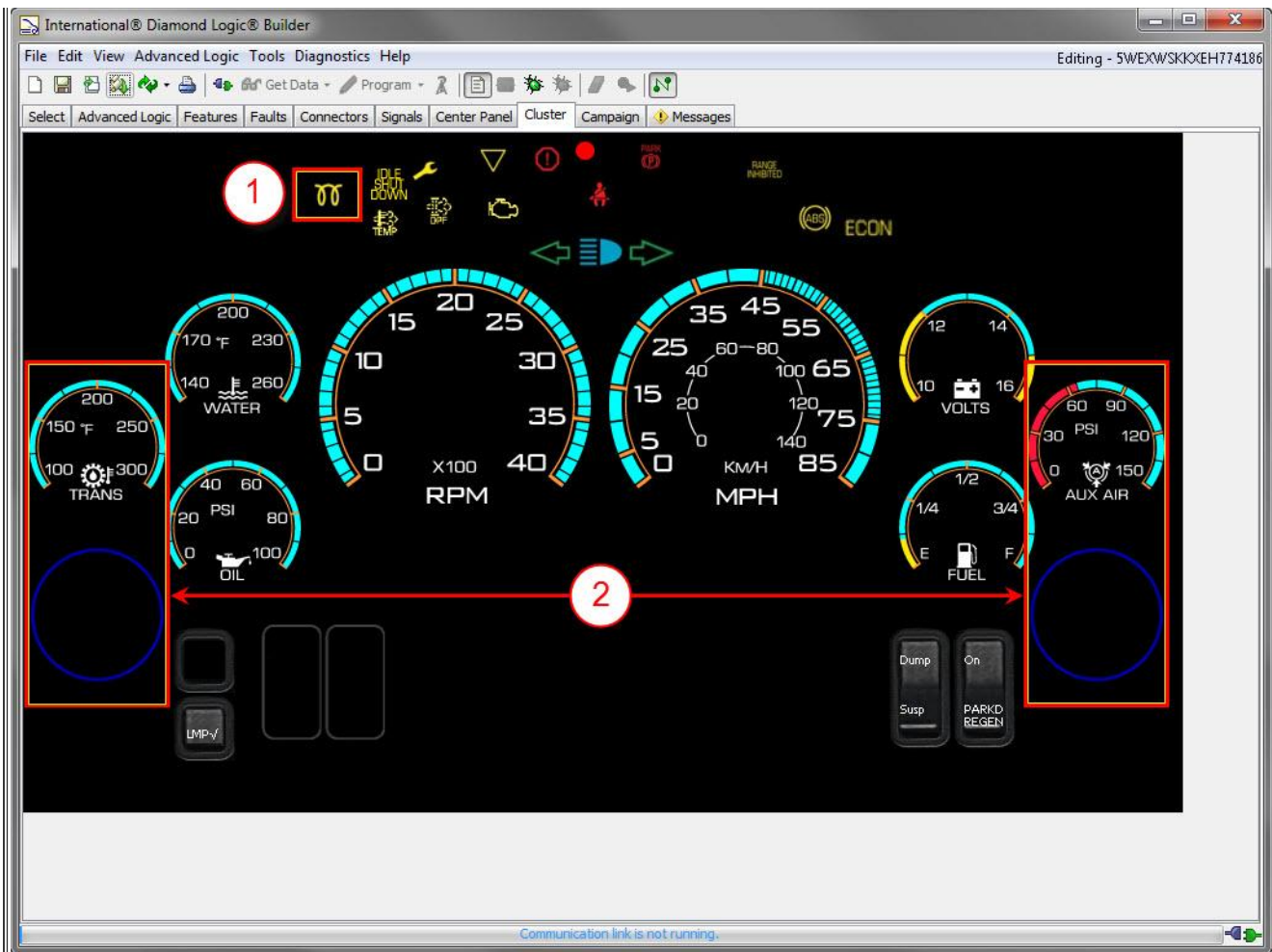


Figure #3: Cluster Tab

1. Wait to Start Lamp ([Return to Step 3](#))
 - This is the most common light to change. 2007 and 2010 clusters have the light in different locations.
 - The "IP Configuration" may be changed. Vehicle Type or EPA Year may be incorrect.
 - Example: Applying a medium duty IP Configuration to a ProStar model.

2. Optional Gauge Locations ([Return to Step 4](#))
 - Check for:
 - Missing gauges.
 - Extra gauges.
 - Incorrect gauge location.

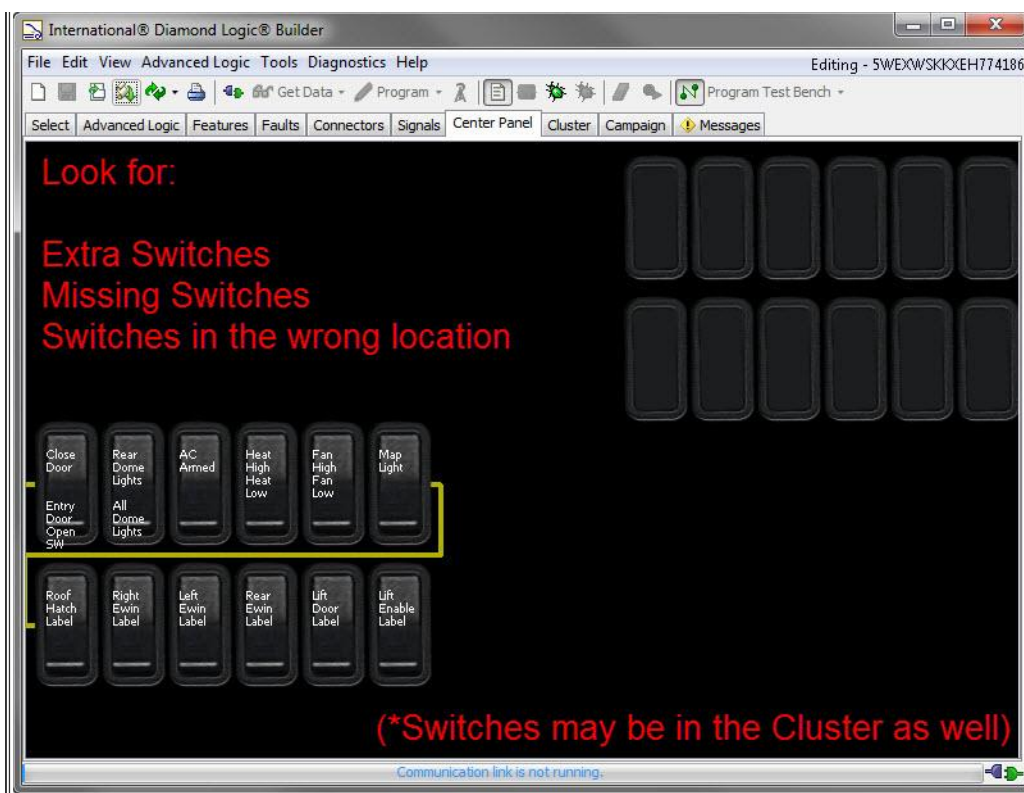


Figure #4:Center Panel Tab

Verify the switch location in Diamond Logic Builder matches the physical switch location on the truck.

([Return to Step 5](#))

Repair Step(s)

- If you are applying Advanced Logic using a template, refer to the [Installation Procedure](#).
- If you have found an error with Advanced Logic that is already installed, a case file will be required to make the necessary corrections. Dealers and Body Builders do not have the required access levels.

Removal Procedure:

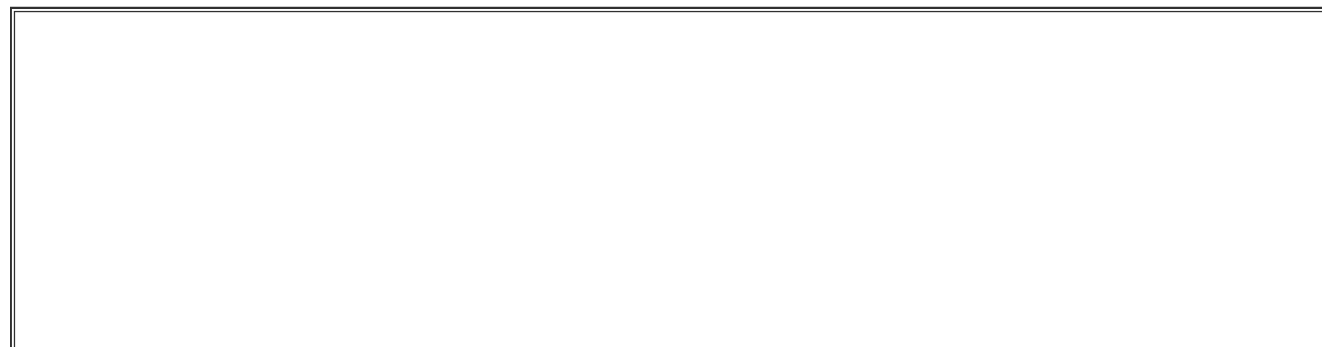
Not Applicable
Figure #: Title of Image

Installation Procedure:

1. Make a Template. Refer to Figure #5.
 - If new Advanced Logic is being written, you will make a template of the VIN the Advanced Logic is being written for.
 - If the Advanced Logic is already on a VIN and needs to be duplicated, a template of the VIN with the Advanced Logic needs to be made .

NOTE:

If you already have a template you will need to import the template to apply it. Refer to Step 3 below



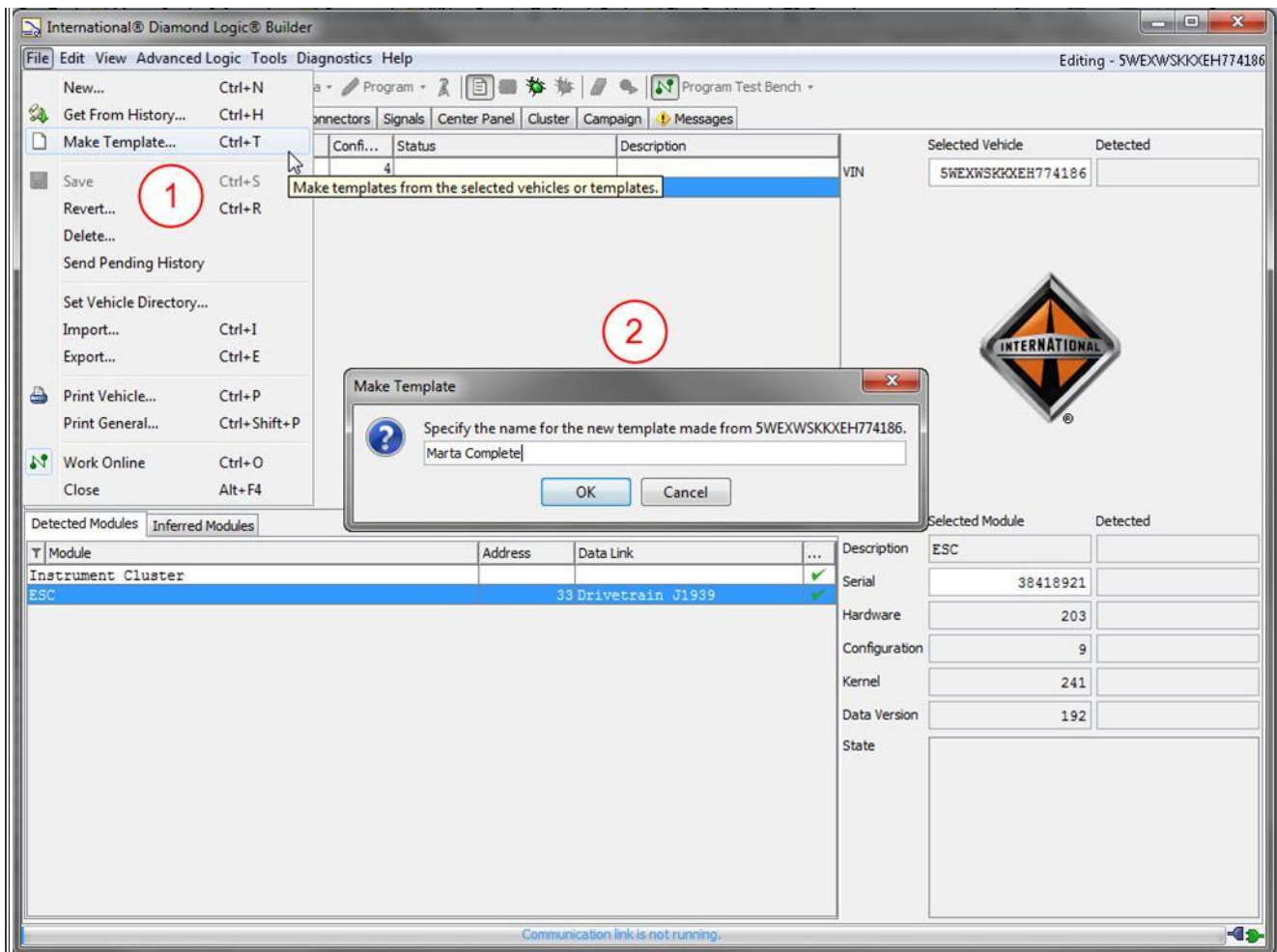


Figure #5: Make a Template in Diamond Logic Builder

1. Select "File" // "Make Template".
2. Name the Template.

2. The new template will appear and show Unsaved Changes. Click on the template. Click "File" // "Save".
 - Now you can write new Advanced Logic or edit any current Advanced Logic.
3. To import a template that has already been made, click "File" // "Import". Refer to Figure #6

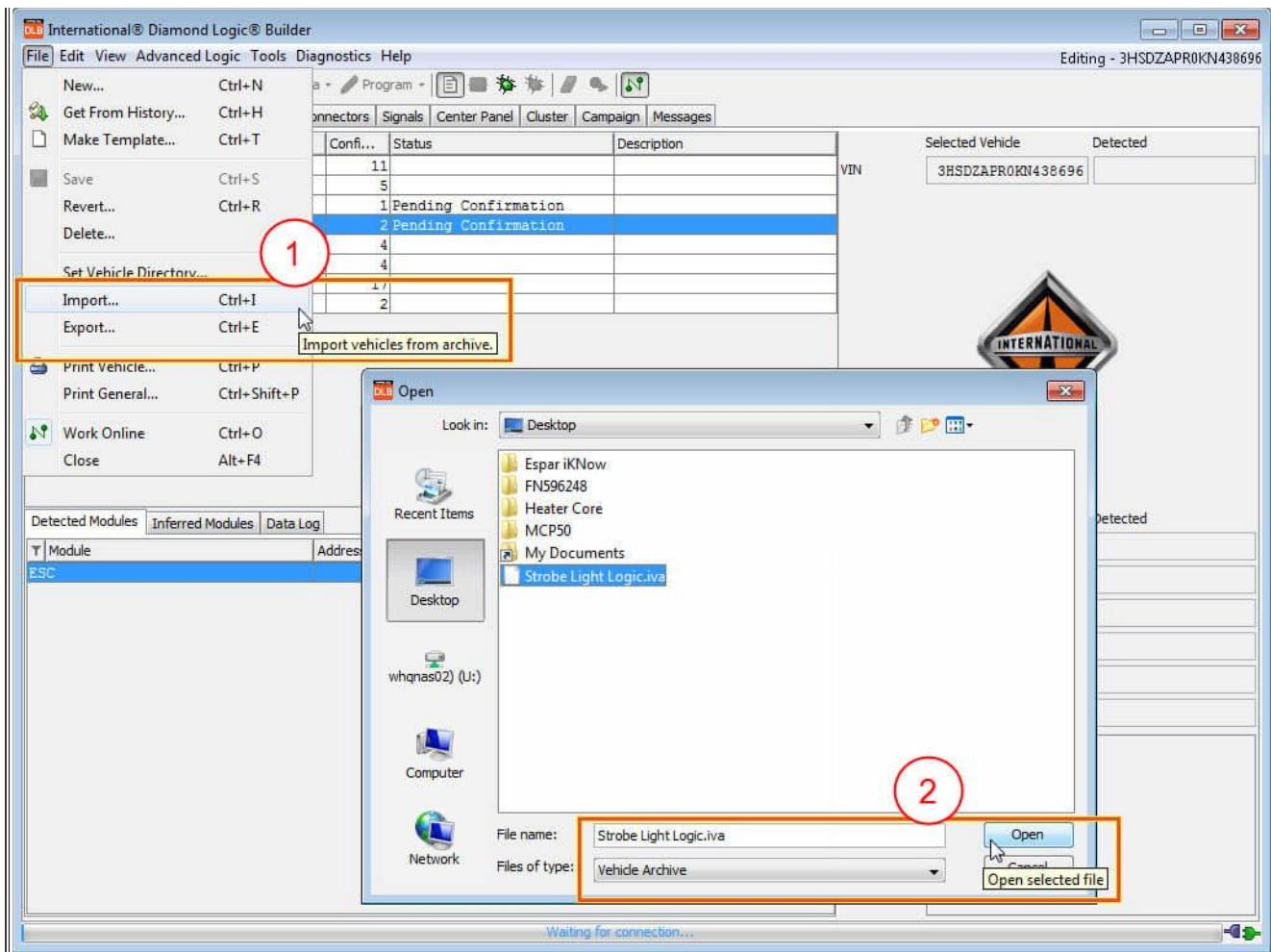


Figure #6: Import a Template in Diamond Logic Builder

1. Select "File" // "Import".
2. Locate the correct file and click "Open"

4. Click on the VIN of the vehicle you wish to apply the template to.
5. Click the "Apply Template" icon, or click "Edit" // "Apply Templates". Refer to Figure #7.

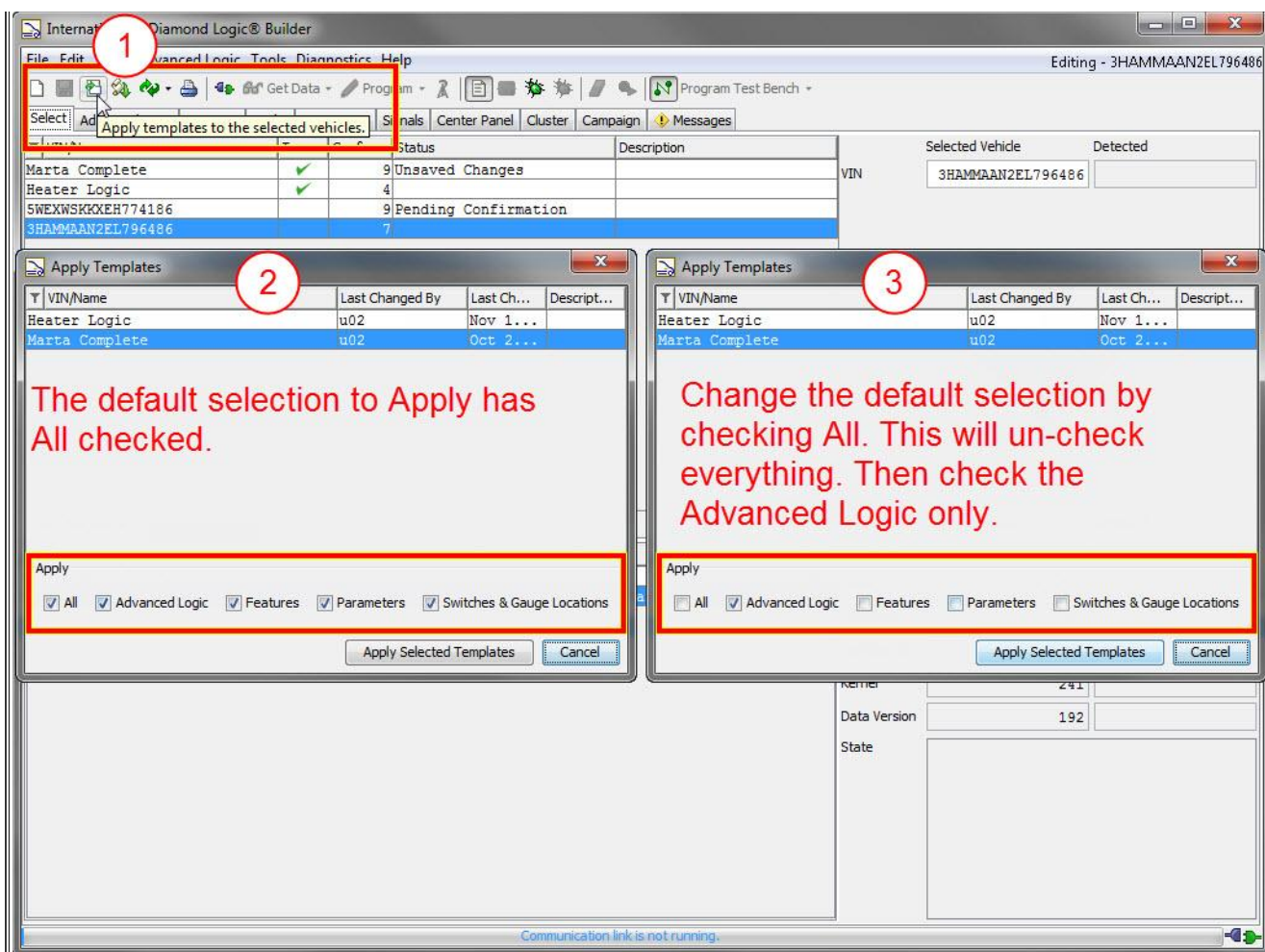


Figure #7: Apply a Template in Diamond Logic Builder

1. Click the "Apply Template" icon.
2. The default selection will have All checked.
3. Apply the Advanced Logic only.

5. The VIN with the newly applied template will show Unsaved Changes. Click "File" // "Save".
6. The changes are now ready to be programmed into the vehicle:
 - o Connect to the truck and program the module.
 - o If you are working remotely you will need to click "File" // "Send Pending History".
7. If Send Pending History was used, the Status will show "Pending Confirmation". This indicates the file was uploaded to the database. If a different laptop is used to program the VIN, the user will need to "Get from History" and program.

Warranty Information

NOTE:

Advanced Logic and Improperly applied Advanced Logic is the responsibility of the user who wrote / applied the template. Applying or Changing Advanced Logic is non-warrantable in most cases. The only time this is warrantable is if a Navistar employee wrote the original Advanced Logic block. Usually this will be the responsibility of the Body Builder / TEM.

Warranty Claim Coding:

Group:	08524 - Body Electrical System Controller Components
Noun:	887 - Programming

Standard Repair Time(s):

Step	Description	Chassis	Engine	SRT	Hours
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6 or 7	Electronic System Controller (ESC - Cab), Program	All Models with ESC / BC	A08-7002A	0.3
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Claim SRT Example:

Claim Comment Suggestion:

Special Requirement(s):

Other Resources

- [Master Service Information Site](#)
- [DLB Quick Start Guide](#)
- [DLB User Manual 1](#)
- [DLB User Manual 2 - Advanced Logic](#)

 Hide Details	Feedback Information Viewed: 5411 Helpful: 19 Not Helpful: 1
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