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| | | | | Other Languages: | NONE | | | Author: | Charles Schroeder |
| | | | | Current Language: | English | | | Last Modified: | 11/5/2018 |
| Knowledge E | Base | | | Major System: | PROGRAM | MMING SUPPORT | | Created: | 10/24/2014 |
| | | | | Availability: | ISIS, Bus I | ISIS, FleetISIS, Body Build | der, IsSIR | Revision: | 2 |
| | | Countries: | RUSSIA, A BELIZE, C RICA, DOI SALVADO URUGUAY PERU, PU GUYANA, KOREA, N | AUSTRALIA, BAHAMAS, ANADA, CHILE, TAIWAN MINICAN REPUBLIC, EC IR, TRINIDAD AND TOBA Y, VENEZUELA, MEXICO IERTO RICO, CUITAÇAO, G HAITI, HONDURAS, JAM IEW ZEALAND, PANAMA | BOLIVIA, BRAZIL, I, COLOMBIA, COSTA UADOR, EL GO, UNITED STATES, , ARUBA, NICARAGUA, UAM, GUATEMALA, IAICA, KOREA, SOUTH A, SOUTH AFRICA | Document ID: | IK2600215 | | |

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 |
|------|---|---|
| | DIAGNOSTIC: | Yes: |
| | Verify the vehicle has Advanced Logic installed. Refer to Figure #1. | Continue to Step 2. |
| #1 | Connect with Diamond Logic Builder.View the Advanced Logic tab. | No: |
| | Does the vehicle have Advanced Logic applied? | Follow normal troubleshooting procedures for the customer's complaint. |
| Step | Action | Decision |
| | DIAGNOSTIC: | Yes: |
| #2 | Check the Messages tab to see how the Advanced Logic was applied. Refer to Figure #2. | Open a Tech Service case file and request assistance to revert the changes and have the Advanced Logic re-applied properly. |
| | Does the Message tab show any improper changes when the Advanced Logic was added? | No: • Continue to Step 3. |
| Sten | Action | Decision |
| otep | | |
| | DIAGNOSTIC: Check the Electronic Gauge Cluster light configuration in Diamond Logic Builder and verify it matches the physical light location on the truck. | Yes: Open a Tech Service case file and request assistance to revert the changes and have the Advanced Logic re-applied properly. |
| #3 | Refer to <u>Figure #3, Item 1</u> . Are any of the lights in the incorrect location? | No: All EGC lights are in the correct location. Continue to Step 4. |
| Step | Action | Decision |
| #4 | 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. Are any of the lights in the incorrect location? | Yes: 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. |
| | | All EGC lights are in the correct location. Continue to Step 5. |
| Step | Action | Decision |
| #5 | DIAGNOSTIC: | Yes: |

Check the Switch Pack Switches in the center panel in Diamond · It is possible the switches were changed, and the Advanced Logic Builder and verify it matches the physical switch location on the Logic is correct. Dealer and Body Builder level access does truck. allow changing switch locations. Dealers and Body Builders cannot see all of the programming Refer to Figure #4. • history for configuration changes. If you suspect there may be Are any of the switches in the incorrect location? 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.



| International® Diamond Logic® Builder | | | |
|---|---------------------------|-----------------------|----------------------------|
| File Edit View Advanced Logic Tools Diagnostics Help | | Ed | liting - 5WEXWSKKXEH774186 |
| 🗋 📰 🔁 🎭 🚸 - 🚔 🌆 🕼 Get Data - 🥒 Program - 🤰 🗐 🗃 🏇 🏇 🎾 🧠 💦 Program Test Bench - | | | _ |
| Select Advanced Logic Features Faults Connectors Signals Center Panel Cluster Campaign I Messages | | | |
| T Message (double-click for detail) | | | Type |
| When this signal is used it is your responsibility to comply with FMVSS standards. | | | Warn |
| If Univ_Air_Relay_Driver_7 is not gated by Accessory or Ignition it might keep the body controller | awake and o | irain the ba | ttery. Warn |
| When this signal is used it is your responsibility to comply with FMVSS standards. | | | Warn |
| If Univ_Air_Relay_Driver_5 is not gated by Accessory or Ignition it might keep the body controller | awake and o | irain the ba | ttery. Warn |
| When the Advanced Logic was applied to this unit a t The user applied the Advanced Logic, but also chan parameters, and switch & gauge locati | emplate ged the ons | e was u: e feature | sed. es, |
| Mandale Channess Judget | Value /Erein | To Who | Itathan |
| I module Changes what | value/From | | Sep 4 2013 9:42 |
| Applied MARTA Runt D features.parameters.switch & gauge locations | | CVV | Sep 4, 2013 9:42 |
| ESC Applied MART A Run1 D custom logic Lift Door Ajar, Roof Hatch Ajar, Right Ewin | | суу | Sep 4, 2013 9:42 |
| ESC Changed configuration | | суу | Sep 4, 2013 9:42 |
| | | | |
| T Test Release Description | | | |
| | | | |
| Communication link is not running. | _ | | -43- |
| Figure #2: Messages tab | | | |
| This example shows Advanced Logic was installed improperly. (<u>Return to Step 2</u>) | | | |





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

| Ir | ternational® Diamond | Logic® Bui | lder | | | | ACCS IN | na san san 180 | Vi Marra | ile. | | |
|------|--|--|------|------------|----------------|-----------------|-----------------------|--|-----------|---------------|-------------------|------------------------|
| File | Edit View Advanced L | ogic Tools. | Diag | gnostics H | lelp | | | | | | Editi | ng - 5WEXWSKKXEH774186 |
| | New | Ctrl+N | a | • / Prog | ram + 🦹 🛛 |] = % # | F / / % | Program Test | t Bench 🔹 | | | |
| 84 | Get From History | Ctrl+H | br | nectors | ignals Cente | r Panel Cluster | Campaign | Messages | | | | |
| | Make Template | Ctrl+T | | Confi | Status | | Des | cription | | | Selected Vehicle | Detected |
| | Save Revert Delete Send Pending History | Ctrl+S Ctrl+R | Mak | e template | is from the se | ected vehicles | ortemplate | 25. | | VIN | SWEXWSKKXEH774186 | |
| | Set Vehicle Directory Import Export | Ctrl+I Ctrl+E | | _ | | | 2 |) | | | INTERNATION | |
| 4 | Print Vehicle | Ctrl+P | | Make | Template | | | | | - X | | |
| | Print General | Ctrl+Shift- | ۰P | 6 | Specify | the name for t | he new tem | plate made from 5 | 5WEXWSKKX | EH774186. | Ve Ve | |
| N | Work Online | Ctrl+0 | | | Marta C | omplete | | | | | | |
| | Close | Alt+F4 | | | | | ок | Cancel | | | | |
| Det | cted Modules Inferred N | Vodules | | | | | | | | | Selected Module | Detected |
| TN | odule | in a date of the second | | | | Address | Data Link | | | Description | ESC | |
| Ins | trument Cluster | | | | | | | 1.0 40.000 | ~ | Serial | 38418921 | |
| ESC | | | | | | 3. | 3 Drivetra | in J1939 | × . | Hardware | 203 | |
| | | | | | | | | | | Configuration | | |
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| | | | | | | | | | | Nerries | 241 | |
| | | | | | | | | | | Data Version | 192 | |
| | | | | | | | | | | State | | |
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| | | | _ | | | Commu | pication link is | not rupping | | | | -4- |
| | | | - | | | Commu | espoort mit 10 | and a second | | | | |
| | | | | | Figure # | 5: Make a ' | Template | e in Diamono | d Logic E | Builder | | |
| | | | | | | 1. S 2. N | elect "Fil ame the | e" // "Make To Template. | emplate". | | | |

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

| 1 | nternational® Diamond | Logic® Builder | r. | | | | | | | |
|------|----------------------------|-----------------|--------------|-------------------|--|------------------------|-------------------|---------|------------------|----------------------------|
| File | Edit View Advanced | Logic Tools Di | iagnostics H | lelp | | | | | Ed | liting - 3HSDZAPR0KN438696 |
| | New | Ctrl+N | a • 🥒 Prog | 1ram - 🖹 🚍 | 券 推 ┃ | ■ 14 | | | | |
| 24 | Get From History | Ctrl+H | onnectors S | ignals Center Pa | nel Cluster C | ampaign Messages | | | | |
| D | Make Template | Ctrl+T | Confi | Status | | Description | | | Selected Vehicle | Detected |
| - | Server. | CHUS | 11 | | | | | VIN | 3HSDZAPROKN43869 | 6 |
| | Save | Ctil+5 | 5 | Dending Conf | | | | | | |
| | Revert | Ctri+k | 2 | Pending Conf. | irmation | | | | | |
| | Delete | (1 | 4 | | | | | | | |
| | Set Vehicle Directory. | | 4 | | - | | | | • | |
| 1 | Import | Ctrl+I | 2 | | | | | | | |
| | Export | Ctrl+E | ŝ | | | | 1 | | | |
| _ | A Longing A Longing and an | 1 | mport vehicl | les from archive. | | | | | INTERNATIO | HAL |
| - | Print venicie | Ctrl+P | | Open | | | | | | |
| | Print General | Ctrl+Shift+P | - | Open | Providence of the local sectors of the local sector | | | | | |
| 14 | Work Online | Ctrl+O | | Look in: | Desktop | | | • 0 | 1 📴 🛄 🔹 | |
| | Close | Alt+F4 | | ~ | 🃕 Espar iKN | DW | | | | |
| | | | - | | J FN596248 | | | | | |
| Det | ected Modules Inferred I | Modules Data Lo | pa | Recent Items | Heater Co | re | | | | Detected |
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| | | | | | File name: | Strobe Light Logic.iva | | | Open | |
| | | | | Network | Files of type: | Vahida Archiva | | | Ganad | |
| | | | | | nes of type | Vehice Archive | | | Open selected | dfile |
| | | | | | | | | | | |
| - | | | | | Waiting | for connection | | | | - C |
| | | | | Figure #6: Ir | nport a Te | mplate in Diamo | ond Logic I | Builder | | |
| | | | | | 4 0-1- | at "⊏ila" // "la | 1 11 | | | |
| | | | | | | ate the correct file | ι. and click " | Open" | | |
| | | | | | 2. 2000 | | | | | |

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.

| S Internat Viamond Logic® Builder | | | | |
|---|--------------------------|--------------|--------------------|----------------------------|
| File Edit Vanced Logic Tools Diagnostics Help | | | Editi | ing - 3HAMMAAN2EL796486 |
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| Select Ad Apply templates to the selected vehicles. Si nals Center Panel Cluster Camp | aign 🕕 Messages | | | |
| Status | Description | | Selected Vehicle | Detected |
| Marta Complete 9 Unsaved Changes | | VIN | 3HAMMAAN2EL79648 | 6 |
| 5WEXWSKKXEH774186 9 Pending Confirmation | e | | | |
| 3HAMMAAN2EL796486 7 | | | | |
| 🔄 Apply Templates | Apply Templates | 0 | | x |
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| | | | | |
| Apply Selected Templates Cancel | | | Apply Selected | d Templates Cancel |
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| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Communication | link is not running. | | | -4. |
| Figure #7: Apply a Temp | late in Diamond Logic I | Builder | | |
| | | | | |
| 1. Click th 2. The de | e "Apply Template" icon. | ll checked | | |
| 3. Apply t | he Advanced Logic only. | ii checkeu. | | |
| - 112 | 5) | | | |

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:
 - Connect to the truck and program the module.
 - 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 |
|------------------|---------|--------|-----|-------|
|------------------|---------|--------|-----|-------|

| 6 or 7 E | Electronic System Controller (ESC - Cab), Program | All Models with ESC / BC | | <u>A08-7002A</u> | 0.3 | |
|----------|---|--------------------------|--|------------------|-----|--|
|----------|---|--------------------------|--|------------------|-----|--|

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

| Alide Details | Feedback Information |
|-------------------|----------------------|
| | Viewed: 5411 |
| | Helpful: 19 |
| | Not Helpful: 1 |
| No Feedback Found | |
| | |

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