



AWARE VEHICLE INTELLIGENCE™ INSTALLATION MANUAL

FOR INTERNATIONAL® TRUCKS

5500i, 5600i, 5900i, 9100i, 9200i, 9400i and 9900i

MODULES ARE NOT ACTIVATED WHEN SHIPPED. PLEASE SEE THE ACTIVATION GUIDE.

TABLE OF CONTENTS

1.	AWARE™ Vehicle Models	3
1.1.	Before Installing.....	3
1.2.	FCC RF Exposure Information.....	3
2.	How the system works	3
3.	Kit Installation Components	4
3.1.	9000 Kit Components	4
3.2.	Driver Alert Kit Components (Optional).....	4
3.3.	Fuel Tax Indicator Light Components (Optional)	4
3.4.	Components Provided by Installer.....	4
4.	AWARE Module Installation	5
4.1.	Day Cabs	5
4.2.	Sleeper Cabs.....	6
5.	AWARE Main Harness Installation.....	7
5.1.	Battery, Ignition & Ground.....	8
5.2.	J1708/J1587 Connection.....	9
5.3.	J1939 Connection.....	10
5.3.1.	J1939 Flat 3-pin Connector with Terminating Resistor.....	10
5.3.2.	J1939 Round 4-pin Connector with Terminating Resistor	10
5.3.3.	J1939 Connector with NO Terminating Resistor.....	11
5.4.	Install 9-pin Diagnostic Connector	12
5.5.	Accessory Equipment Monitoring Connection.....	14
5.5.1.	Fuel Sender	14
5.5.2.	Park Brake.....	14
5.5.3.	Service Brake	14
6.	Antenna Installation	14
7.	Driver Alert Switch Installation (<i>Optional</i>).....	16
8.	Fuel Tax Reporting Indicator Light (<i>Optional</i>)	17
9.	Software Upgrade	20
10.	Configuration	22
10.1.	Download Templates	22
10.1.1.	Dealers	22
10.1.2.	Customers	22
10.2.	Import Templates into Diamond Logic® Builder.....	22
10.3.	Apply Templates to module.....	23
10.4.	Program Templates to module	23
11.	Activation.....	24
12.	Final Assembly Steps.....	25

APPENDIX

A	Program Parameters Manually.....	26
B	Aware™ Telematics Module LED Troubleshooting Table.....	28

1. AWARE™ Vehicle Models

This installation procedure is for the International® 5000i and 9000i Series. Applicable models include International® 5500i, 5600i, 5900i, 9100i, 9200i, 9400i, and 9900i. Other vehicles may not be similar.

1.1. *Before Installing*

Please read this entire document prior to installing the AWARE module. Pay attention to all Cautions and Warnings.

CAUTION: Unauthorized antennas, modifications, or attachments could impair call quality, damage the module, or result in violation of FCC regulations. Do not use the module with a damaged antenna. Please contact your local authorized International® dealer for antenna replacement.

WARNING: To avoid property damage, personal injury, or death, park the vehicle on a flat level surface, set the parking brake, turn the engine off, and chock the wheels.

1.2. *FCC RF Exposure Information*

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this cellular module complies with the FCC guidelines and these international standards.

WARNING: While the system is in operation, a separation distance of at least 20 centimeters (approximately 8 inches) must be maintained between the cellular antenna and the body of all persons in order to meet the FCC RF exposure guidelines.

2. How the system works

The AWARE module is a data collection and communication system mounted on a vehicle. It consists of a GPS and cellular antenna and a data communicator module. The data communicator module collects the vehicle's location and system information and sends it to the network control center through wireless technology.

3. Kit Installation Components

3.1. 9000 Kit Components

Kit Part Number: 2595352C91

- 3620482C91 AWARE module
- 2590242C95 AWARE main harness
- 2590243C91 Harness, J1939 Flat 3-pin adaptor
- 2588150C91 Combined GPS & Cellular Antenna
- 3561047C1 Bolt, M6 x1.0 x 30mm long, class 10
- 3535410C1 Nut, M6 x 1.0 w/ washer, class 10
- 1331637 Screw, #14 x 1.5 inch, self drilling
- 1659750C1 Terminals, Deutsch Diagnostic Connector
- 1326518 Grommet, Tyco CES1
- 2027572C1 Wire crimps, Duraseal D-406-002
- 2590862R1 Activation Guide
- 1336182 Tubing, Corrugated 3/8" diameter, 10ft
- 1336193 Cable Tie, black, 7.4"
- 1336205 Tie Down, black 1" x 1"

3.2. Driver Alert Kit Components (Optional)

Kit Part Number: 2589356C91

- 3593875C2 Driver Alert Switch
- 3594960C91 Driver Alert Switch Harness

3.3. Fuel Tax Indicator Light Components (Optional)

Kit Part Number: 2592410C91

- 3803693C1 Light, Data Not Logged
- 3607384C1 Relay, Fuel Tax

3.4. Components Provided by Installer

- Assorted tie-wraps
- Splice kit crimp tool
- Green Lee Punch for standard rectangular Eaton/Cutler Hammer Switch (part number ZTSE4426 from SPX).
- Diamond Logic® Builder Service tool for programming / provisioning module
- EZ-Tech® COM cable (IC3 or IC4)

4. AWARE Module Installation



Figure 1 - Module antenna plugs

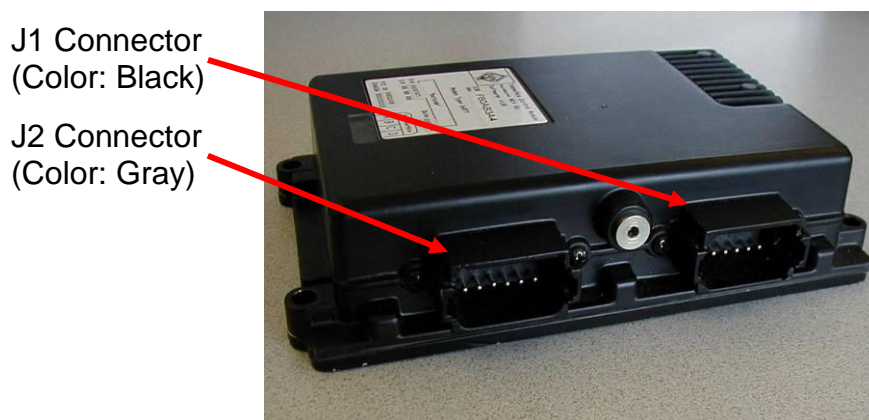


Figure 2 - Module connector locations

4.1. Day Cabs

1. Place the AWARE module behind the driver side seat with the module connectors facing the driver side door to allow for easy harness routing.
2. Mount the module with the wire harness connectors facing the driver side door to allow for easy harness routing.
3. Center the module on the plastic panel and secure the module with self-screwing, self-tapping screws into the plastic panel.

Note: Do not drill through the back cab wall.

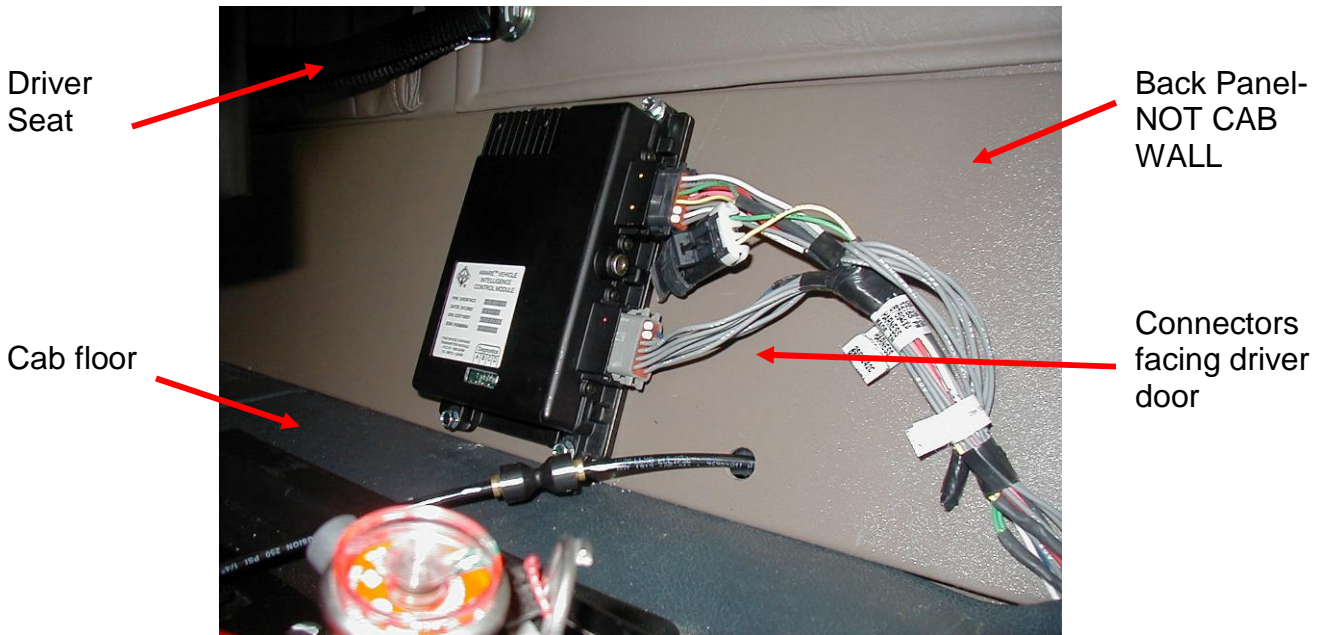


Figure 3 - Module Location in a Day Cab

4.2. *Sleeper Cabs*

1. Place the AWARE module on the forward wall inside the vehicle storage compartment (luggage compartment) under the sleeper bed, behind the driver.
2. Mount the module in a high location that will not be damaged by toolboxes or other equipment. Ensure the mounting holes will not interfere with equipment on the other side of the compartment wall.

Note: Do not drill into the rear wall of the cab.

3. Drill mounting holes according to the module mounting pattern

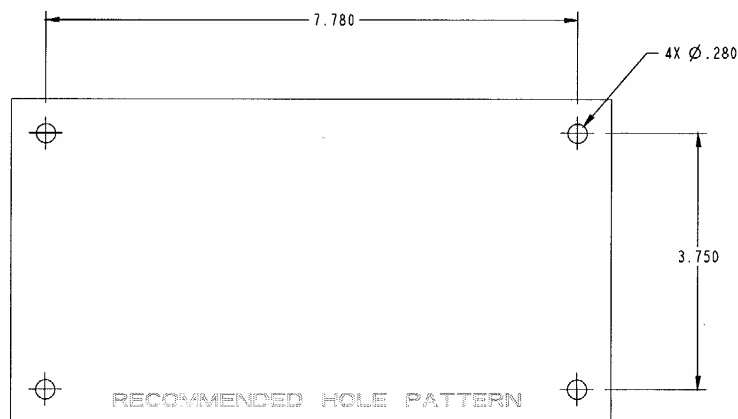


Figure 4 - Module mounting pattern

4. Fasten module to wall using 4 bolts and nuts with module connectors facing up to allow easy wire harness routing.



Figure 5 - Module Mounted in Luggage Compartment

5. AWARE Main Harness Installation

Reference the Cab Master Service Manual for more information. The manual can be found on ISIS® at “<http://service.navistar.com>”.

1. Remove all three-gauge cluster assemblies.
2. Remove the driver's side kick panel and the interior trim piece located above the clutch and brake pedals.
3. Remove the passenger side interior trim plate that is located below the glove box.
4. Remove the driver side scuff plate trim from the cab floor.
5. If installed in luggage compartment, remove all components for against the driver sidewall so harness can be routed.



Figure 6 - Gauge Cluster Removal



Figure 7 - Passenger Side Cover



Figure 8 - Kick Panel & Panel Cover Removal



Figure 9 - Driver Door Scuff Plate Removal

6. Uncoil the AWARE main harness and connect the two module connectors to the AWARE module. The two connectors are keyed and should be aligned before inserting.
7. Begin routing the harness along the space under the driver side Scuff Plate. Provide extra harness length in this area so that the module may be serviced later.



Figure 10 - Harness routed under Scuff Plate

8. Continue routing the wire harness up the driver's side kick plate area and extend the harness across the cab instrument panel.
9. Route entire harness to the open location behind instrument panel.

5.1. Battery, Ignition & Ground

10. Locate the BATTERY (red) and IGNITION (pink) wires from the AWARE main harness and route to the passenger side panel.
11. Insert the respective terminal into the B1 BATTERY (497) and I1 IGNITION (494) splice packs provided in the cab under the passenger side panel of the vehicle. The splice packs may be out of view. Reach under and behind the harness near the passenger door to locate the splice packs.



Figure 11 - Battery (red) splice pack



Figure 12 - Ignition (pink) splice pack

12. Locate the GROUND (white) wire in the AWARE main harness and route to behind the right side gauge cluster.
13. Insert the GROUND wire into an available terminal space of splice pack G2 or G3.

5.2. J1708/J1587 Connection

14. Locate the blunt cut J1708/J1587 twisted pair of wires (blue & gray) from the AWARE main harness and route them to the splice packs located behind the speedometer module.
15. Insert J1708/J1587+ (blue) wire into splice pack 514 (Datalink POS).
16. Insert J1708/J1587- (gray) wire into splice pack 515 (Datalink NEG).

5.3. J1939 Connection

1. The J1939 terminating resistor will be populated in the J1939 flat 3-pin connector located near the module connectors.

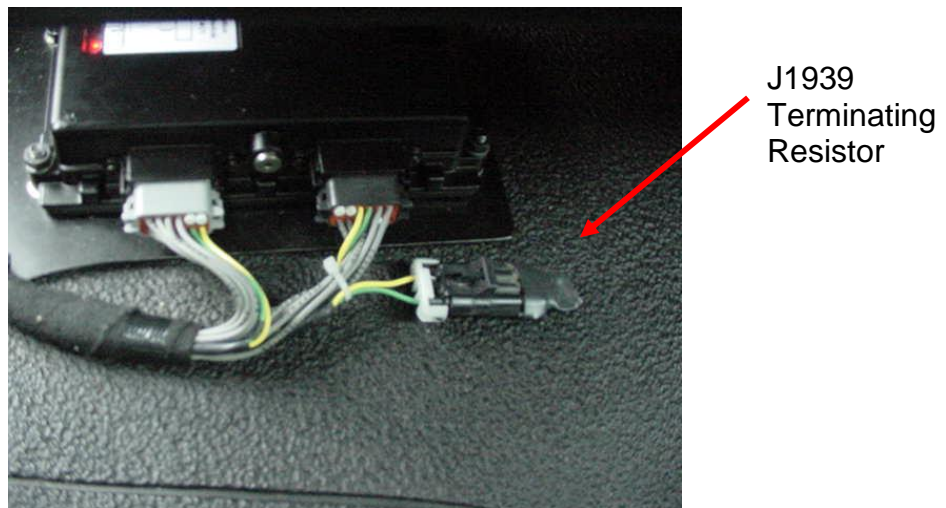


Figure 13 - J1939 Terminating Resistor

2. Locate the 6-pin Diagnostic Connector near the driver side door. Look directly behind the connector to determine the J1939 configuration for the vehicle. (The mating harness contains YELLOW and GREEN twisted pair wires.)
 - a. J1939 flat 3-pin connector with terminating resistor
See Section 5.3.1
 - b. J1939 round 4-pin connector with terminating resistor
See Section 5.3.2
 - c. J1939 connector with no terminating resistor
See Section 5.3.3

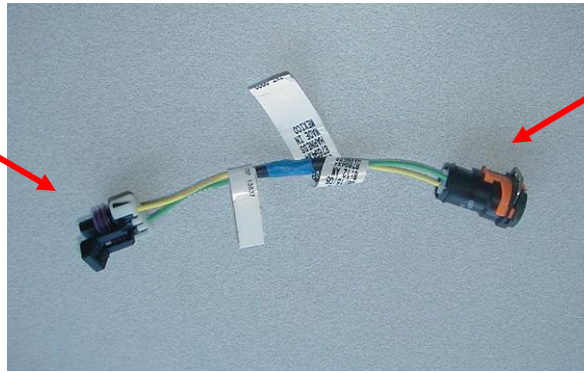
5.3.1. J1939 Flat 3-pin Connector with Terminating Resistor

1. Remove the terminating resistor from the Main Cab Harness and discard.
2. Attach the J1939 flat 3-pin female connector from the Main Cab Harness to the AWARE Harness.
3. For model years prior to 2008, proceed to Section 5.4 Install 9-pin Diagnostic Connector. For model years 2008 and newer, the vehicle is already equipped with a 9-pin diagnostic connector. Proceed to Section 5.5 Accessory Equipment Monitoring Connection.

5.3.2. J1939 Round 4-pin Connector with Terminating Resistor

1. Remove the terminating resistor from the Main Cab Harness and discard.
2. Locate the J1939 Adaptor Harness contained within the kit. It contains a J1939 flat 3-pin connector and a J1939 round 4-pin connector.

3-pin flat connector



4-pin round connector

Figure 14 - J1939 Adaptor Harness

3. Attach the J1939 Adaptor Harness to the AWARE Harness.

J1939 Adaptor Harness

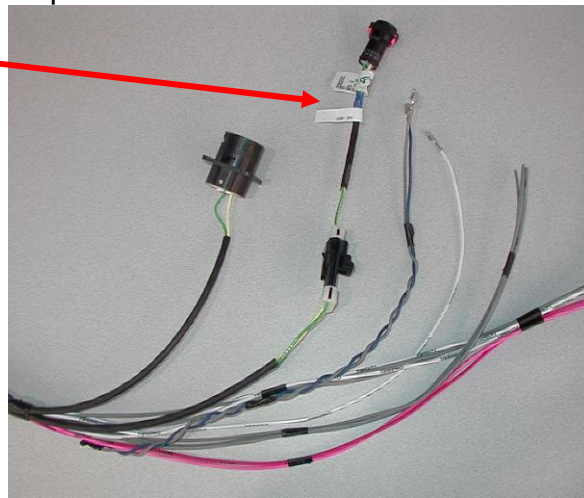


Figure 15 - ABS Harness & J1939 Adaptor Harness

4. Attach the J1939 round 4-pin connector from the J1939 Adaptor Harness to the Main Cab Harness.
5. Proceed to Section 5.4 Install 9-pin Diagnostic Connector.

5.3.3. J1939 Connector with NO Terminating Resistor

1. J1939 Extender Harness (Part Number 2590245C91) MUST BE ORDERED when the terminating resistor is NOT located behind the 9-pin diagnostic connector.
2. The J1939 Extender Harness contains a J1939 flat 3-pin female connector and a J1939 flat 3-pin male connector.



Figure 16 - J1939 Extender Harness

3. Disconnect the J1939 connectors on the Main Cab Harness.
4. Attached the AWARE J1939 3-pin female connector to the Main Cab Harness male connector.
5. Attach the J1939 flat 3-pin male connector from the J1939 Extender Harness to the AWARE Harness near the module.
6. Attach the J1939 flat 3-pin female connector from the J1939 Extender Harness to the other Main Cab Harness connector.

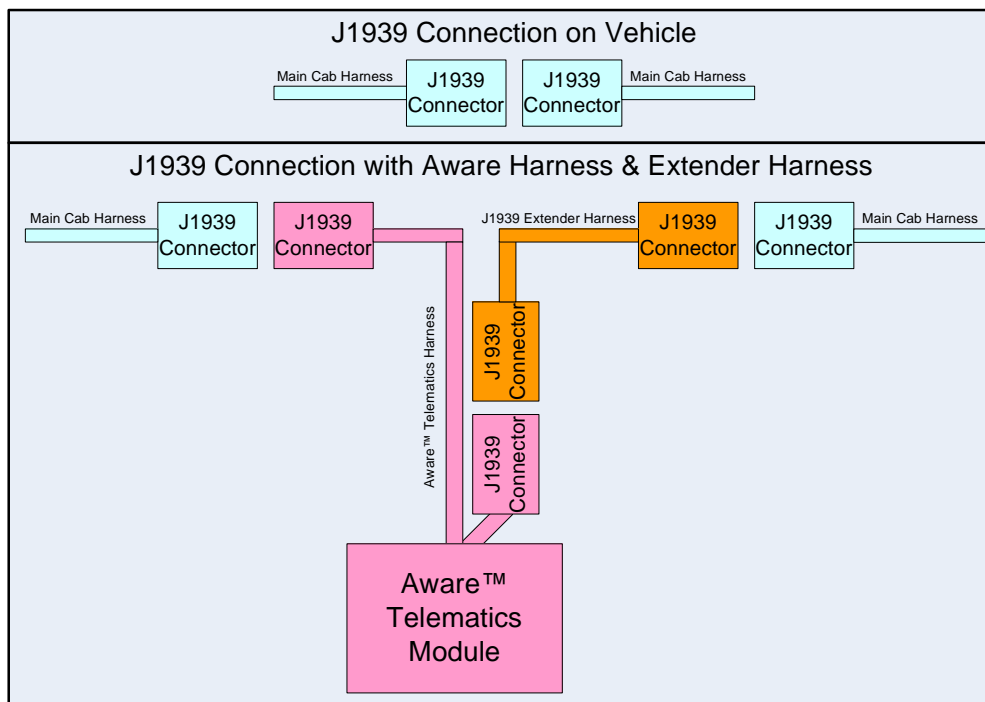


Figure 17 - Configuration with J1939 Extender Harness

7. Proceed to Section 5.4 Install 9-pin Diagnostic Connector.

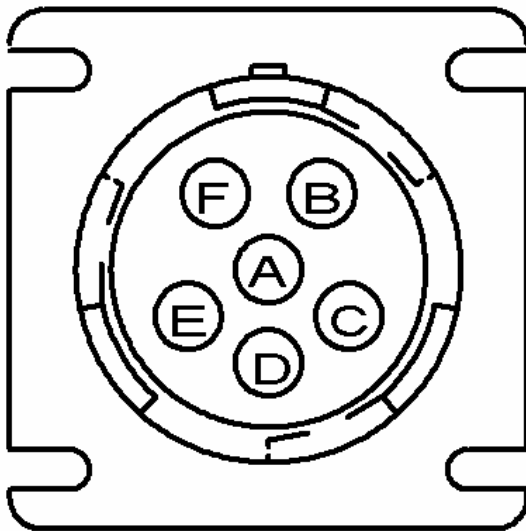
5.4. Install 9-pin Diagnostic Connector

1. Remove the 6-pin diagnostic connector from the instrument panel base rail.



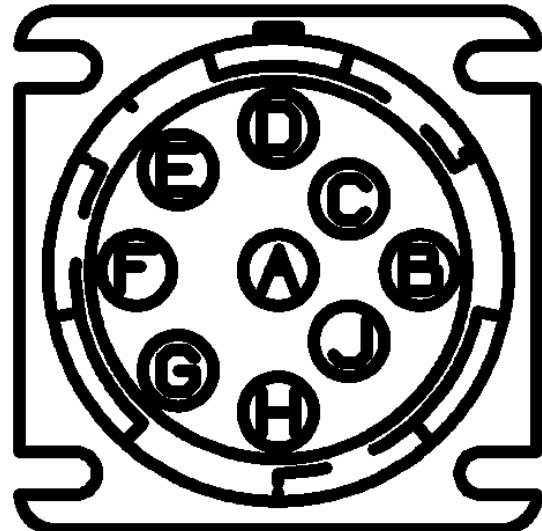
Figure 18 - Remove 6 Pin Diagnostic Connector

2. Cut off all four wires close to the connector back shell.
3. Re-terminate the four wires with the Deutsch terminals provided in the kit.
4. Insert the four wires in the 9-pin diagnostic connector that is part of the AWARE Telematics Harness. See the attached pin out chart for the 9-pin diagnostic connector as a guide.
5. Attach the 9-pin diagnostic connector to the instrument panel base rail in the same location that was taken up by the 6-pin diagnostic connector.



PIN	Description	Color
A	J1708+	Blue
B	J1708-	Gray
C	Battery	Violet
D	-	-
E	Ground	White
F	-	-

Figure 19 - 6-Pin Diagnostic Connector



PIN	Description	Color
A	Ground	White
B	Battery	Violet
C	J1939+	Yellow
D	J1939-	Green
E	-	-
F	J1708+	Blue
G	J1708-	Gray
H	-	-
J	-	-

Figure 20 - 9-Pin Diagnostic Connector

5.5. Accessory Equipment Monitoring Connection

5.5.1. Fuel Sender

1. Locate the wire labeled "AD1" (gray) of the AWARE main harness.
2. Locate the speedometer module connector behind the gauge cluster.
3. Splice and heat shrink with a wire crimp, the AD1 wire and the fuel sender wire circuit number 36 (tan). The fuel sender wire is connected to pin 15 of the white speedometer module connector 421.

Remember to configure with Diamond Logic® Builder as defined in Section 10.

5.5.2. Park Brake

4. Locate the wire labeled "AD2" (gray) of the AWARE main harness.
5. Locate the park brake switch in the cab behind the dash panel.
6. Splice and heat shrink with a wire crimp, the AD2 wire and the park brake circuit number 44B (gray).

Remember to configure with Diamond Logic® Builder as defined in Section 10.

5.5.3. Service Brake

7. Locate the wire labeled "AD3" (gray) of the AWARE main harness.
8. Locate the service brake switch behind the clutch pedal.
9. Splice and heat shrink with a wire crimp, the AD3 wire and service brake circuit number 70a (orange).

Remember to configure with Diamond Logic® Builder as defined in Section 10.

6. Antenna Installation

1. Clean the left rear corner of the roof and the left side of the rear cab wall with a mild detergent cleaner and wipe dry with a soft cloth.
2. Remove the backing off of the bottom of the antenna revealing the adhesive surface.

Note: The GPS antenna must be mounted so that it has a clear view of the sky.

3. Place the antenna to the left rear corner of the cab roof on a flat panel surface.
4. Hold in place for 10 seconds to ensure adhesive sets.



Figure 21 - Antenna Location

5. Insert the two antenna cables into convolute tube.
6. Loosen the floor mat.
7. Drill a 1-inch hole in the left rear cab floor corner with a circular metal hole saw.

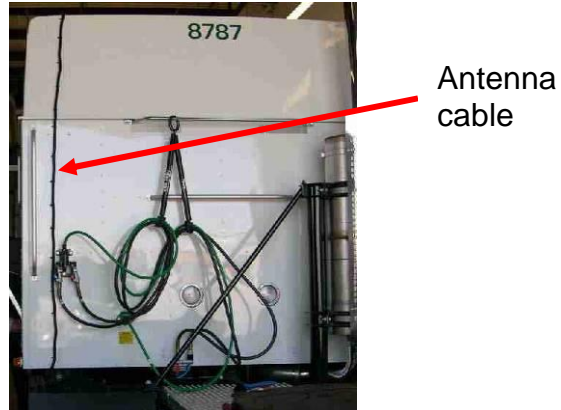


Figure 22 - Antenna routing on cab wall

8. Attach the grommet into the hole with the rubber end pointing down.
9. Route the two-antenna cable ends through the grommet and pull the antenna cables through until the convolute tubing is placed against the back wall of the cab.
10. Use the self-adhesive strips with tie wraps and secure the convolute tube with antennas cables to the back wall of the cab.

CAUTION – The routing of the AWARE antenna cable is extremely important. There must not be any kinks in the cable, and it must not be routed in such a manner as to make it susceptible to cuts in the outer insulator. Cuts and/or kinks in the cable will adversely affect AWARE signal reception and may permanently damage the AWARE module.

11. Route the antenna cables in the cab to the AWARE module.
12. Connect the antenna cables finger tight only.
13. Coil and tie wrap excess antenna cable lengths to the cab harness. Do not kink, pinch or tightly coil while securing excess antenna cable.

7. Driver Alert Switch Installation (*Optional*)

1. The recommended location for the Driver Alert Switch is the lower left base rail of the instrument panel next to the diagnostic connector. (*If the recommended location is not available, select a location that is accessible to the driver but away from normal vehicle operation equipment.*)
2. The recommended method to create a rectangular switch slot is to use a Green Lee Punch (P/N ZTSE4426 from SPX).

Recommended Location

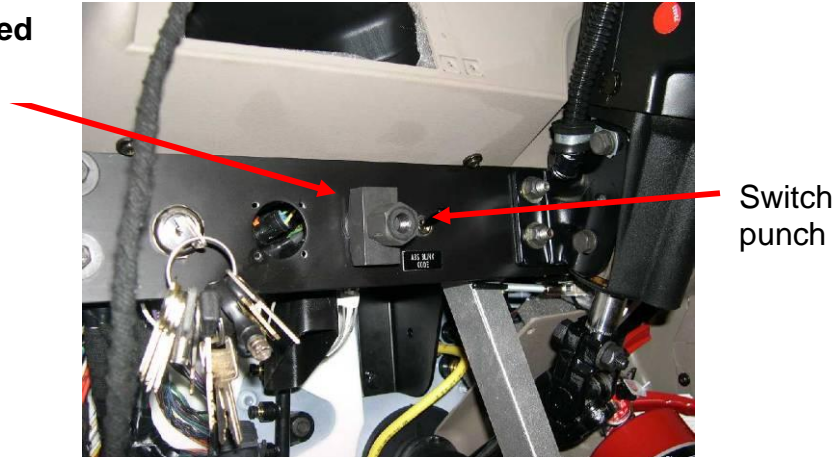


Figure 23 - Switch location and punch

3. Insert the Driver Alert Switch connector from the rear side of the base rail until it snaps securely in place.
4. Connect the small black 8-pin connector on Driver Alert Switch harness to the AWARE main harness.
5. Connect the panel dimmer feed (blue wire) from the Driver Alert Switch harness in the vehicle panel dimmer circuit splice pack. Insert the terminal into a spare cavity of the L1 panel dimmer splice pack (503) located behind the right side gauge cluster.
6. Connect the Driver Alert Switch to switch connector mounted in the instrument panel base rail.

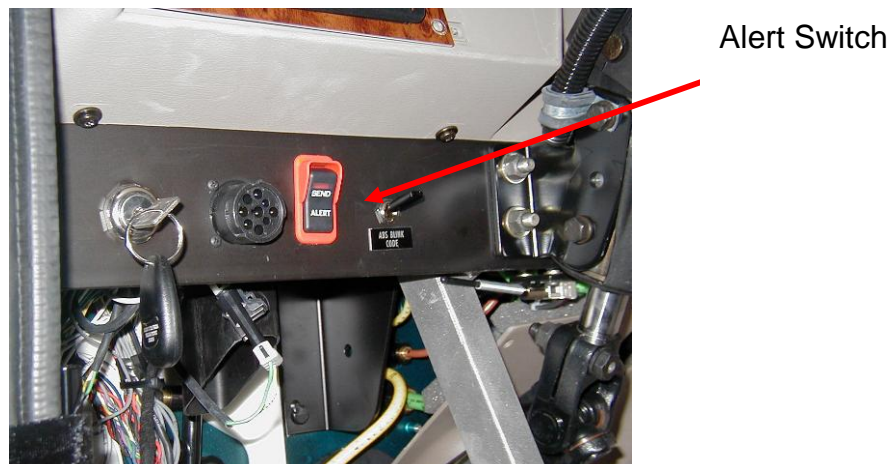
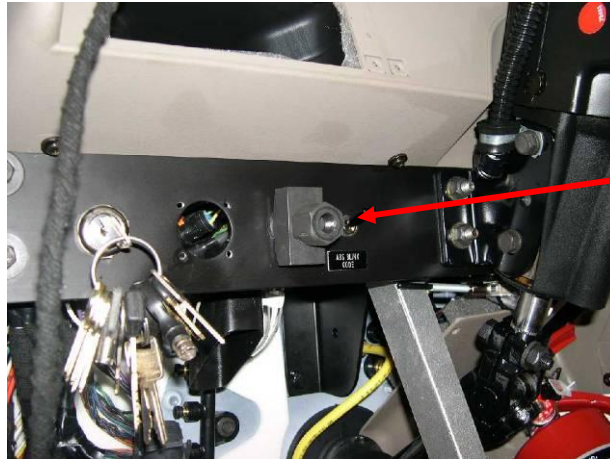


Figure 24 - Driver Alert Switch Installed

Remember to configure with Diamond Logic® Builder as defined in Section 10.

8. Fuel Tax Reporting Indicator Light (*Optional*)

1. The recommended location for the Driver Alert Switch is the lower left base rail of the instrument panel next to the diagnostic connector. (*If the recommended location is not available, select a location that is accessible to the driver but away from normal vehicle operation equipment.*)



**Recommended
Location**

Figure 25 – Fuel Tax light location

2. The recommended method to create a rectangular switch slot is to use a Green Lee Punch (P/N ZTSE4426 from SPX).
3. Insert the “No Data Logged” light into the Plastic Plate until it snaps securely in place.



Figure 26 – No Data Logged light

4. Attach the “No Data Logged” connector from the fuel tax adaptor harness to the “No Data Logged” indicator light.



Figure 27 – No Data Logged connector

5. Crimp a splice pack terminal onto the white ground wire CHASGND1 of the fuel tax adaptor harness.
6. Insert the CHASGND1 wire into a GROUND Splice Pack located behind instrument cluster.

Ground Splice Pack

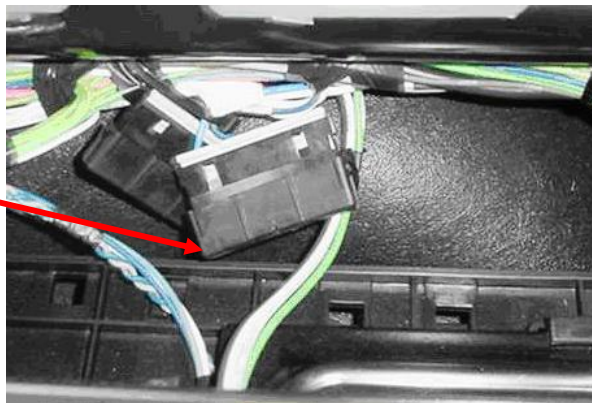


Figure 28 - Ground Splice Pack

7. Splice the pink IGN circuit (ignition) from the fuel tax adaptor harness together with the pink IGN circuit (ignition) of the Aware main harness.
8. Crimp a splice pack terminal onto the blue PNL1+ circuit (panel dimmer feed) of the fuel tax adaptor harness.
9. Connect the blue PNL1+ circuit (panel dimmer feed) from the fuel tax adaptor harness to the vehicle panel dimmer circuit splice pack. The vehicle panel dimmer circuit splice pack is located behind the instrument cluster.
10. Locate the grey PWMOUT2 circuit in the Aware main harness and crimp a relay connector terminal onto it.
11. Route the grey PWMOUT2 circuit to the relay connector on the fuel tax adaptor harness. **NOTE: Depending on location of the fuel tax harness you may need to add additional wire to the PWMOUT2 wire to reach the relay in the fuel tax harness.**

12. Insert the PWMOUT2 circuit into cavity 5 of the relay connector (Relay pin 85) of the fuel tax adaptor harness.

Insert
PWMOUT2
circuit

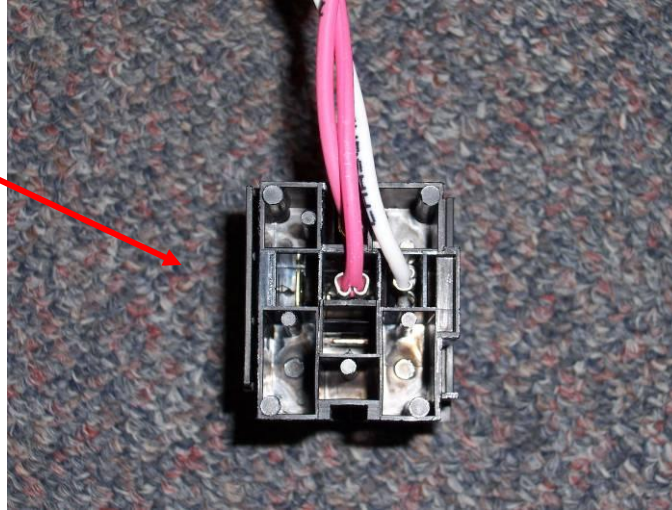


Figure 29 – Relay Connector

13. Ensure the relay is firmly connected after the terminal has been connected.



Figure 30 – Relay Connector with Relay

14. Secure the harness with cable ties.

9. Software Upgrade

Verify the module contains the latest version of software by using Diamond Logic® Builder. Launch Diamond Logic® Builder while connected to the Internet to ensure the latest version of Diamond Logic® Builder software is downloaded onto the computer:

1. Connect your International® EZ-Tech® or other laptop with Diamond Logic® Builder to the Internet
2. Launch Diamond Logic® Builder. Once Diamond Logic Builder opens, the computer may be disconnected from the internet.
3. Turn ignition Key ON.
4. Attach the computer to the diagnostic connector in the vehicle using an EZ-Tech® COM cable.
5. Allow Diamond Logic® Builder to detect the vehicle and module.
6. On the Select Tab, highlight the "VIN/Name" of the vehicle being programmed
7. Under Module, highlight International® Telematics
8. Select Tools, Get Data, Get Module Data

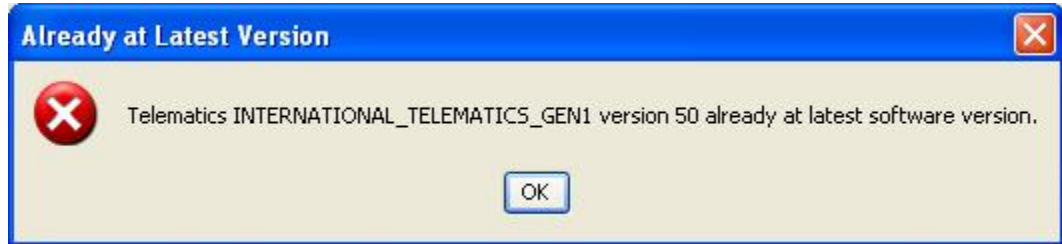
The screenshot displays the International Diamond Logic Builder software interface. The main window is titled "International® Diamond Logic® Builder" and shows a menu bar with options like File, Edit, View, Advanced Logic, Tools, Diagnostics, and Help. The interface is divided into several sections:

- Vehicle Selection Table:** A table with columns for VIN/Name, Conf..., Status, and Description. The row for VIN 1HTWHAAR74J091308 is highlighted in blue. A red arrow points to this row with the text "VIN/Name Highlighted".
- Module Selection Table:** A table with columns for Module, Address, Data Link, and status icons. The row for "International(R) Telematics Software: Support 88..." is highlighted in blue. A red arrow points to this row with the text "Module Highlighted".
- Right Panel:** Contains the International logo and a summary of selected vehicle and module information. It includes fields for "Selected Vehicle" (1HTWHAAR74J091308), "Selected Module" (International(R) T), and "Detected" information for various components like Serial, Hardware, Configuration, Kernel, Data Version, and State.

The status bar at the bottom of the window indicates "Connected".

9. Select Edit, Update Software, Update Module

- a. If the screen displays a message “Already at latest version”, click the “OK” button and proceed to the next section. *(The module already has the latest version of software).*



- b. If the Status field next to VIN/Name updates to “Unsaved Changes”, perform the following steps. *(The module needs upgraded to the newer version of Software as displayed in the selected module columnn):*
 1. Select File, Save
 2. Select Tools, Program, Program Module

Y	VIN/Name	Conf...	Status	Description
	1HTMMAAL06H319481		9	
	1HTMMAAL96H319480		10	
	1HTWHAAR74J091308		9 Unsaved Changes	
	499690010			
	520710020			
	520710215			
	539580080			
	539580101			

Y	Module	Address	Data Link
	hitachi, CAT ESC II	33	Drivetrain J1939	✓	✗
	International(R) Telematics Software: Support 88...	74	Drivetrain J1939	✓	✗
	Engine Controller	0	Drivetrain J1939	✓	✗
	Transmission Controller	3	Drivetrain J1939	✓	✗
	ABS Controller	11	Drivetrain J1939	✓	✗
	Gauge Cluster	23	Drivetrain J1939	✓	✗
	Global Broadcast Messages, J1708, non-proprietar...	0	Switch & Door Pod J1708	✓	✗
	First 6-Pack Switch Module	15	Switch & Door Pod J1708	✓	✗

Selected Vehicle		Detected	
VIN	1HTWHAAR74J091308		

Selected Module		Detected	
Description	International (R) T	International (R) T	
Serial	520710267	520710020	
Hardware	5	5	
Configuration	18471	11071	
Kernel	50	45	
Data Version	INTERNATIONAL_TELE	INTERNATIONAL_TELE	
State	Aware™ telematics activated.		

Software Version (Kernal)
increased under
Selected Module

10. Configuration

The follow section details how to configure the parameters by using templates. To configure the parameters manually, see Appendix A.

10.1. Download Templates

10.1.1. Dealers

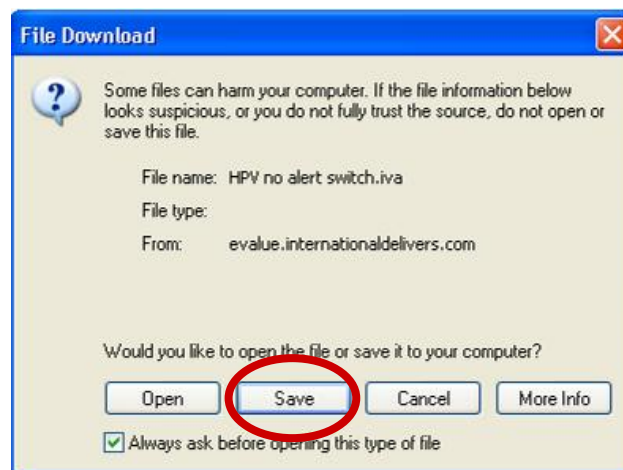
Templates can be downloaded from the ISIS web page <http://service.navistar.com/>
Select menu item: Technical Publications
Select menu item: Aware Technical Publication
Scroll down on the screen to view the list of templates.

10.1.2. Customers

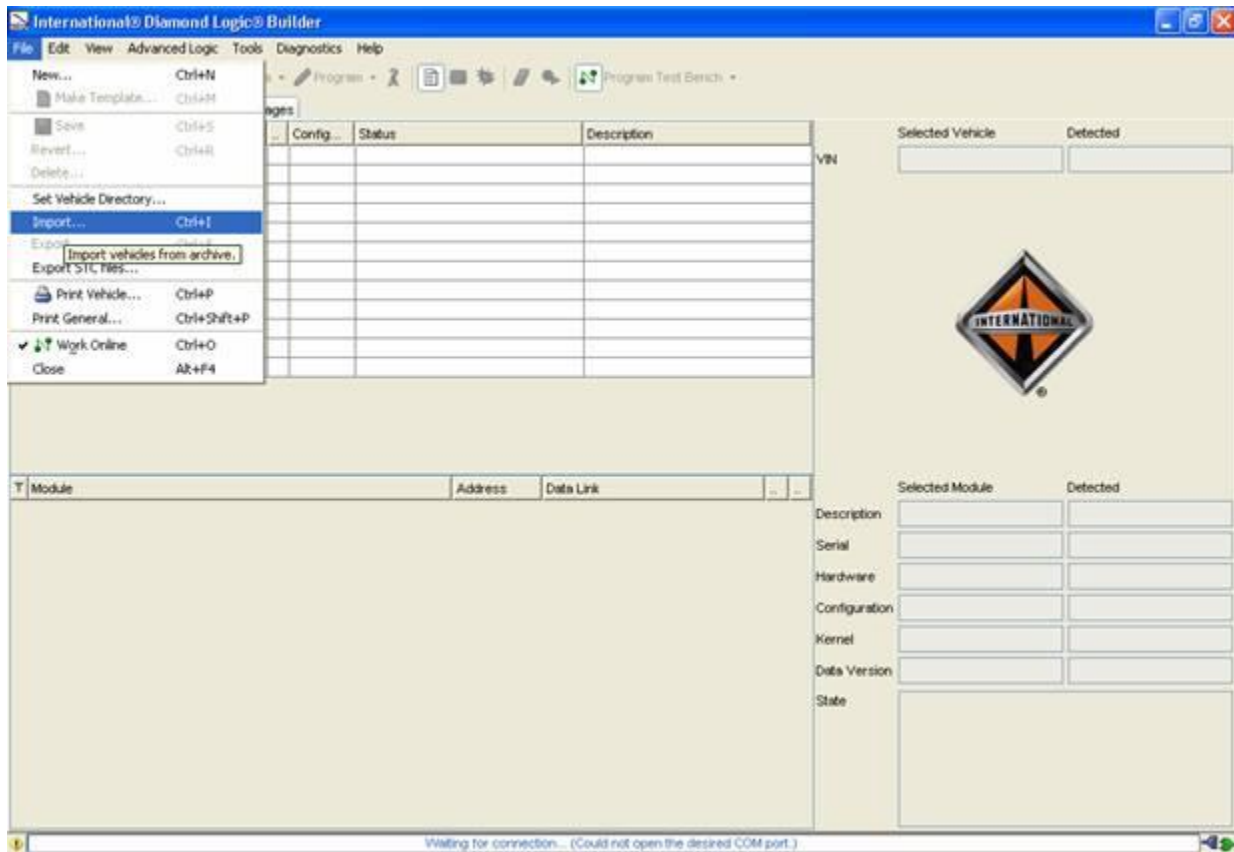
Templates can be downloaded from <http://AwareTechPubs.internationaldelivers.com/>
Scroll down on the screen to view the list of templates.

10.2. Import Templates into Diamond Logic® Builder

1. Click on the hyperlink for the applicable template.
2. After the “File Download” screen appears, select Save



3. After the “Save As” screen appears, select a folder you will remember.
4. At the bottom of the “Save As” screen, for “Save as type” select “All Files”
5. Select Save
6. Once the template file finishes downloading, go back to Diamond Logic® Builder, and select File, Import...



7. When the Open window appears, select the template file that was downloaded to the laptop and click Open.
8. The template will now appear at the bottom of the VIN/Name list

10.3. Apply Templates to module

9. Highlight VIN/Name of the vehicle being programmed
10. Under Module, highlight International® Telematics
11. Select Edit, Apply Templates...
12. Select the desired template
13. Checkbox only Parameters
14. Select Apply Selected Templates
15. Next to the VIN/Name, Status will change to Unsaved Changes
16. Select File, Save

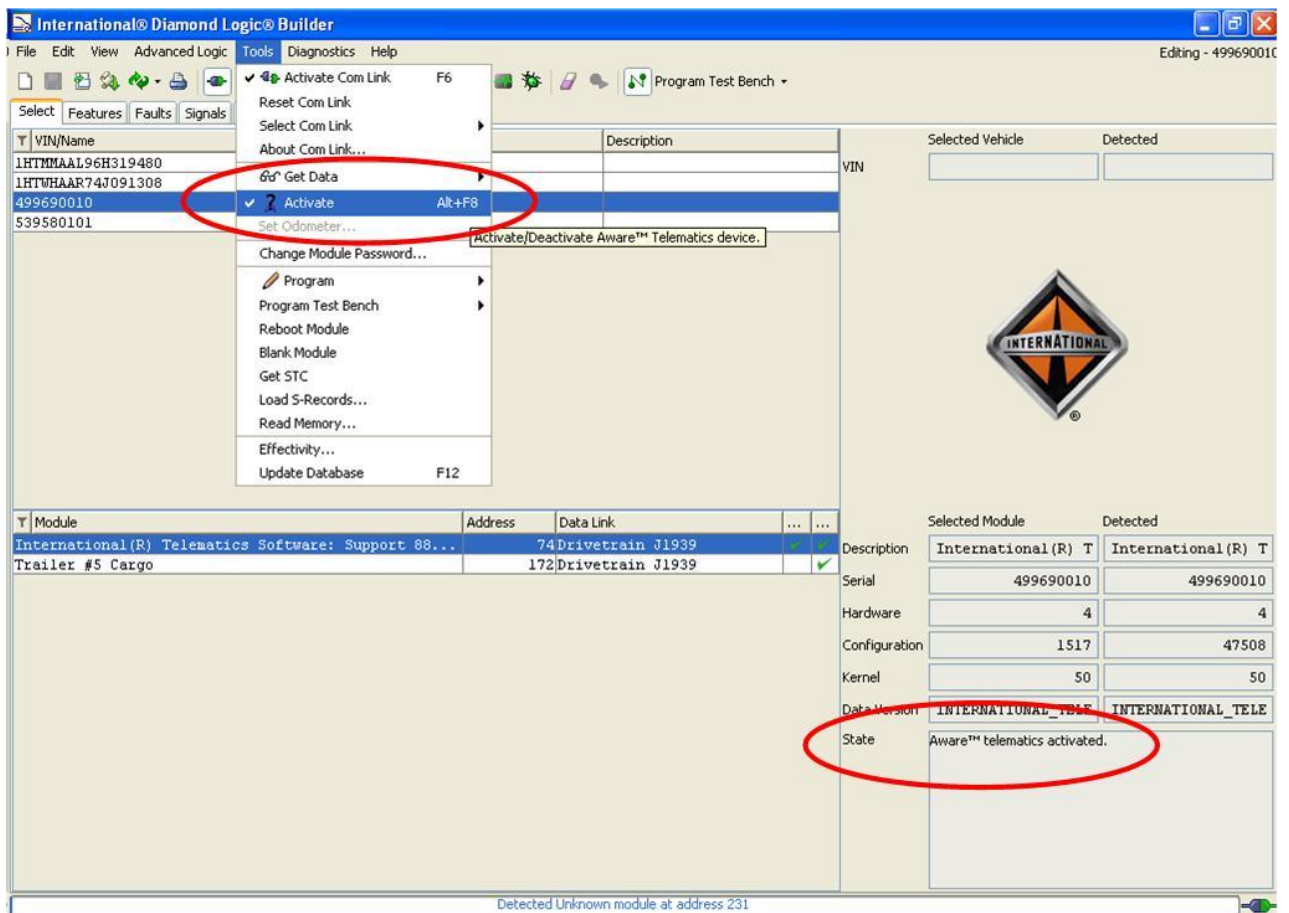
10.4. Program Templates to module

17. Select Tools, Program, Program Module

11. Activation

The module MUST be activated to communicate to the website.

1. **Select Tools, Activate**
2. Follow Diamond Logic® Builder prompts.
3. On the bottom right side of the screen, State will update to:
AWARE attempting to connect
4. **Allow 10 minutes for the module to activate.**
5. Upon activation of the module, the State will update to:
AWARE activated



12. Final Assembly Steps

1. Coil and tie wrap the bundle of wires to the cab harness.
2. Reinstall the passenger side trim panel.
3. Reinstall the instrument gauge panels.
4. Reinstall the trim cover and kick plate beside the clutch and brake pedals.
5. Reinstall driver's side scuff plate cover.



Figure 31 - Trim Panels Reinstalled

A Program Parameters Manually

Parameters can be programmed manually (instead of using templates) in Diamond Logic® Builder through the following steps:

1. Highlight VIN/Name of the vehicle being programmed
2. Under Module, highlight International® Telematics
3. Select tab Features.
4. Select sub-tab AWARE.

Data Sources

5. Select Parameter: Engine Operating Hours Source
Enter Value: J1587
6. Select Parameter: Engine Retarder Status Source
Enter Value: J1587
7. Select Parameter: Engine Speed Source
Enter Value: J1587
8. Select Parameter: Transmission Retarder Status Source
Enter Value: J1587
9. Select Parameter: Vehicle Distance Source
Enter Value: J1587
10. Select Parameter: Vehicle Speed Source
Enter Value: J1587

Fuel Sender

11. Select Parameter: Fuel Level Source
Enter Value: General Purpose Input 1
12. Select Parameter: Analog 1 Mode
Enter Value: Analog – Battery/Ignition biased sensor
13. Select Parameter: Analog 1 Filter Coefficient
Enter Value: 16
14. Select Parameter: Analog 1 X Values
Model Year: Pre 2002
Enter Value: 0.8, 15.2, 30, 40, 50.4
Model Year: 2002 and After
Enter Value: 0.4, 7.2, 13.2, 18.8, 23.2
15. Select Parameter: Analog 1 Y Values
Model Year: Pre 2002
Enter Value: 0, 41, 103, 162, 250
Model Year: 2002 and After
Enter Value: 0, 63, 125, 188, 250

Park Brake

- 16. Select Parameter: Parking Brake Switch Status Source
Enter Value: General Purpose Input 2
- 17. Select Parameter: Analog 2 Mode
Enter Value: Analog – Battery/Ignition biased sensor
- 18. Select Parameter: Analog 2 X Values
Enter Value: 30, 30, 50, 70, 70
- 19. Select Parameter: Analog 2 Y Values
Enter Value: 1, 2, 2, 2, 0

Service Brake

- 20. Select Parameter: Service Brake Switch Status Source
Enter Value: General Purpose Input 3
- 21. Select Parameter: Analog 3 Mode
Enter Value: Analog – Battery/Ignition biased sensor
- 22. Select Parameter: Analog 3 X Values
Enter Value: 30, 30, 50, 70, 70
- 23. Select Parameter: Analog 3 Y Values
Enter Value: 1, 2, 2, 2, 0

Driver Alert Switch *(If the Driver Alert Switch has been installed, perform the next step.)*

- 24. Select Parameter: Driver Alert Switch Installed
Enter Value: Enable
- 25. Select File, Save.
- 26. Select Edit, Update Software, Update Module to program the module.

B AWARE Module LED Troubleshooting Table

Indicated Items	LED's				Comments
	A	B	C	D	
Power disconnected	OFF	OFF	OFF	OFF	
Sleep mode active	Heart-beat	OFF	OFF	OFF	
Awake mode active	Slow Flash	-	-	-	
Ignition is ON	Steady ON	-	-	-	
Internal Fault Detected	Fast Flash	-	-	-	Highest priority for LED "A". Indicates in Awake and Ignition modes also.
GPS OFF	-	OFF	-	-	
GPS active	-	Slow Flash	-	-	
GPS acquired	-	Steady ON	-	-	
Cellular Modem OFF	-	-	OFF	-	
Cellular Modem signal strength (Low & no service)	-	-	Slow Flash	-	
Cellular Modem signal strength (High)	-	-	Steady ON	-	
Cellular modem transmitting data	-	-	Fast Flash	-	Highest priority for LED "C". Shall indicate for a minimum of 3 seconds.
Communication on J1939 data link	-	-	-	Slow Flash	
Cellular modem receiving data	-	-	-	Fast Flash	Highest priority for LED "D". Shall indicate for a minimum of 3 seconds.

Flash Rate Definition
Heartbeat = 1 flash every minute
Slow Flash = 1 flash every second
Fast Flash = 4 flashes every second