Allison Transmission

DRIVING TRANSMISSION TECHNOLOGY®



USER GUIDE

TCM REFLASH (PCCS) V7.0

ALLISON TRANSMISSION CONTROLS

GN7801EN_202109

TECHNICAL PUB

User Guide	GN7801EN_202109
	TCM Reflash (PCCS) **V7.0**
	2021 September

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Table of Contents

1 TCM Reflash Introduction 3
1.1 TCM Reflash 3
1.2 TCM Reflash Prerequisites 3
1.3 Applicable Transmission Models 4
2 Overview of TCM Reflash Screens and Menus 5
2.1 TCM Reflash Login 5
2.2 Accessing the Host Server 6
2.3 Dynamic Messages Viewer 8
2.4 TCM Database Selection 9
2.5 Main Calibration Screen 10
2.5.1 Calibrations to Download from Web Server 12
2.5.2 Calibrations to Load into ECU/TCM 13
2.5.3 Calibrations Older than Ten Days 14
2.6 Calibration Request (Allison Distributors/Dealers Only) 15
2.7 Main Calibration Screen Drop-down Menus 17
2.7.1 File Menu 17
2.7.2 ECU/TCM Menu 22
2.7.3 Software Menu 22
2.7.4 Reports Menu 23
2.7.5 Help Menu 27
3 Using TCM Reflash 33
3.1 Launching TCM Reflash 33
3.2 Downloading Calibrations From Web Server (PCCSWeb/CDS) 35
3.2.1 Adding Calibrations to TCM Reflash 35
3.2.2 Modifying Calibration Request Information to Download From Web Server 39
3.2.3 Submitting Calibrations (Distributors/Dealers Only) 39
3.3 Loading Calibrations into TCM/ECUs 41
3.3.1 Loading Calibrations into an H 40/50 EP System 47
3.3.2 Requesting Copies of a Calibration Already Downloaded 50
3.4 Downloading TCM/ECU Application Software 50
3.5 Loading Application Software into a TCM/ECU 52
3.6 Deleting Calibrations from TCM Reflash 52
3.7 Printing TCM/ECU Labels 53
4 Basic Troubleshooting 55
4.1 Invalid CIN Message after Submitting 55
4.2 Unable to Communicate With TCM/ECU 55

4.3 Read/Write Program Disconnects While Loading the Calibration 56
4.4 Intermec Printer is Not Working on PC 56
5 Appendix A—Calibration Request Form 57
6 Appendix B—TCM Reflash Required Hardware 58
6.1 Intermec Setup 59
6.2 Installing the InterDriver™ Software 60
6.3 Most Common Label Problems: 73
6.4 For ECU Labels 73
6.5 For Report Printing 74
6.6 Other Hardware Required 74
7 Appendix C—Hardware Configuration 76
7.1 Allison 4th, 5th and 6th Generation Controls TCM / Load Box Bench Setup 76
7.2 Allison 4th, 5th and 6th Generation Controls TCM / Vehicle Harness Setup 78
7.3 Earlier Hardware Configurations 80
7.3.1 WTEC-II ECU Reflash Load Station (Bench) 80
7.3.2 WTEC-III or CEC2 ECU Reflash Load Station (Bench) 81
7.3.3 1000 / 2000 TCM Reflash Load Station (Bench) 82
7.3.4 All Product Families TCM Reflash Load Station (Vehicle) 83
7.4 Current Hardware Configuration 84

1 TCM Reflash Introduction

1.1 TCM Reflash

TCM Reflash is a PC-based system allowing authorized users to download and install Allison Transmission calibrations for the TC10 Product Family, 1000/2000 and 3000/4000 Product Families (including the new Allison 6th Generation Controls system), as well as Off-Highway (CEC2, CEC3, and CEC5) and Hybrid (H 40/50 EP) control systems. The TCM Reflash application can be launched from the Allison DOC® tool or TCM Reflash can function as a standalone application.

TCM Reflash consists of mainframe host systems (PCCSWeb) and 5th/6th Generation Calibration Delivery System (CDS) and a PC subsystem or client (PC Load Station). The host system stores calibrations that were assembled using data supplied by Allison Transmission's product engineering department, based upon user requirements and specific selection criteria. The PC subsystem client allows the user to download calibrations from the host, systematically store the calibrations and relevant information, and then load the calibrations into a TCM or ECU. TCM Reflash also performs a series of tests and validation steps to make sure the user downloads and loads the correct calibration into the correct TCM/ECU. TCM Reflash also keeps track of all calibrations downloaded and applied to a TCM/ECU.

Typical users of TCM Reflash are Allison distributors and dealers, vehicle OEMs, and Allison personnel.

1.2 TCM Reflash Prerequisites

To use the TCM Reflash application, the user must have:

- Load Station User Name
- Load Station Password
- Minimum hardware configuration
- Internet access (6th Gen users see Section 2.7.5.1)
- TCM Reflash program installed on PC (refer to Appendix B for installation requirements)

1.3 Applicable Transmission Models

TCM Reflash can download and install transmission calibrations for the following Allison Product Families:

- TC10 Product Family with Allison 5th Generation Controls.
- 3000/4000 Product Families with Allison 6th Generation Controls system and earlier control systems.
- 1000/2000 Product Families with Allison 6th Generation Controls system and earlier control systems.
- Off-Highway control systems using CEC2, CEC3, and CEC5 controllers.
- Allison Hybrid product (H 40/50 EP) controllers.

2 Overview of TCM Reflash Screens and Menus

The TCM Reflash application is not a component of the Allison DOC® tool, but can be launched from the Allison DOC® File menu. It can also be installed and used as a standalone application.

2.1 TCM Reflash Login



Fields:

- Enter User Name—a valid Load Station User Name, required to access the TCM Reflash application.

Note:

Previous Load Station ID (PCCS User Name and Password) can be used to operate the TCM Reflash application.

- Enter User Password—a valid Load Station Password, required to access the TCM Reflash application.

Note:

Users are encouraged to login at least every 90 days to keep their accounts active.

Periodically a user may be prompted to change their password. Forgotten passwords can be recovered/reset by correctly answering the challenge questions accessible through the 'Forgot Password' button. If an account (login) is locked due to inactivity or multiple login failures, contact the Allison Transmission Technical Assistance Center at 1-800-252-5283.

Users are required to change their initial, temporary password and may not change their passwords to a recently used password.

Buttons:

- Login—requests login using the User Name and User Password.
- Cancel—closes the TCM Reflash application.
- Help—displays the Help menu.
- About—displays program and version information.
- Forgot Password—launches a challenge question for the user to answer in order to obtain a new password.
- Check Connections—determines if the PC can connect to the Internet.

2.2 Accessing the Host Server

If the network server does not allow direct access to the Internet, access can be obtained through a proxy server. Proxy server access requires entering the correct information in the *Proxy Server* dialog box.

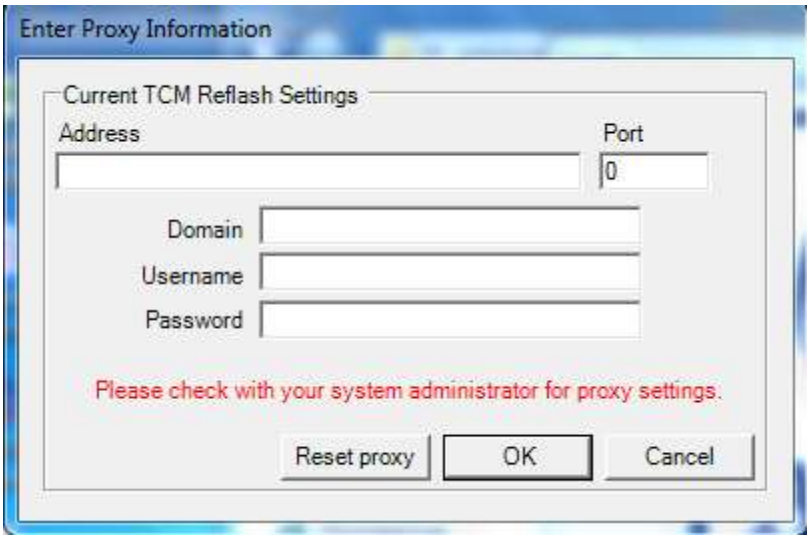
If you cannot directly access the Internet, the following message displays:



Buttons:

- Yes—displays the *Proxy Validation* dialog box.
- No—causes TCM Reflash to verify the User Name and Password. If the User Name and Password is verified, TCM Reflash can be used, provided the needed applications software and/or calibration have been previously downloaded to the PC. A message displays if the User Name and/or Password cannot be validated.

Access the Internet by entering the required information in the fields of the *Enter Proxy Information* dialog box.



Fields:

- Address—the Universal Resource Locator (URL) of your proxy server.
- Port—the designator of the port used by the proxy server (usually port 80).
- Domain – the domain name of proxy server.
- Username—the user name to access the Internet. This is *not* the Load Station User Name.
- Password—the password to access the Internet. This is *not* the Load Station Password.

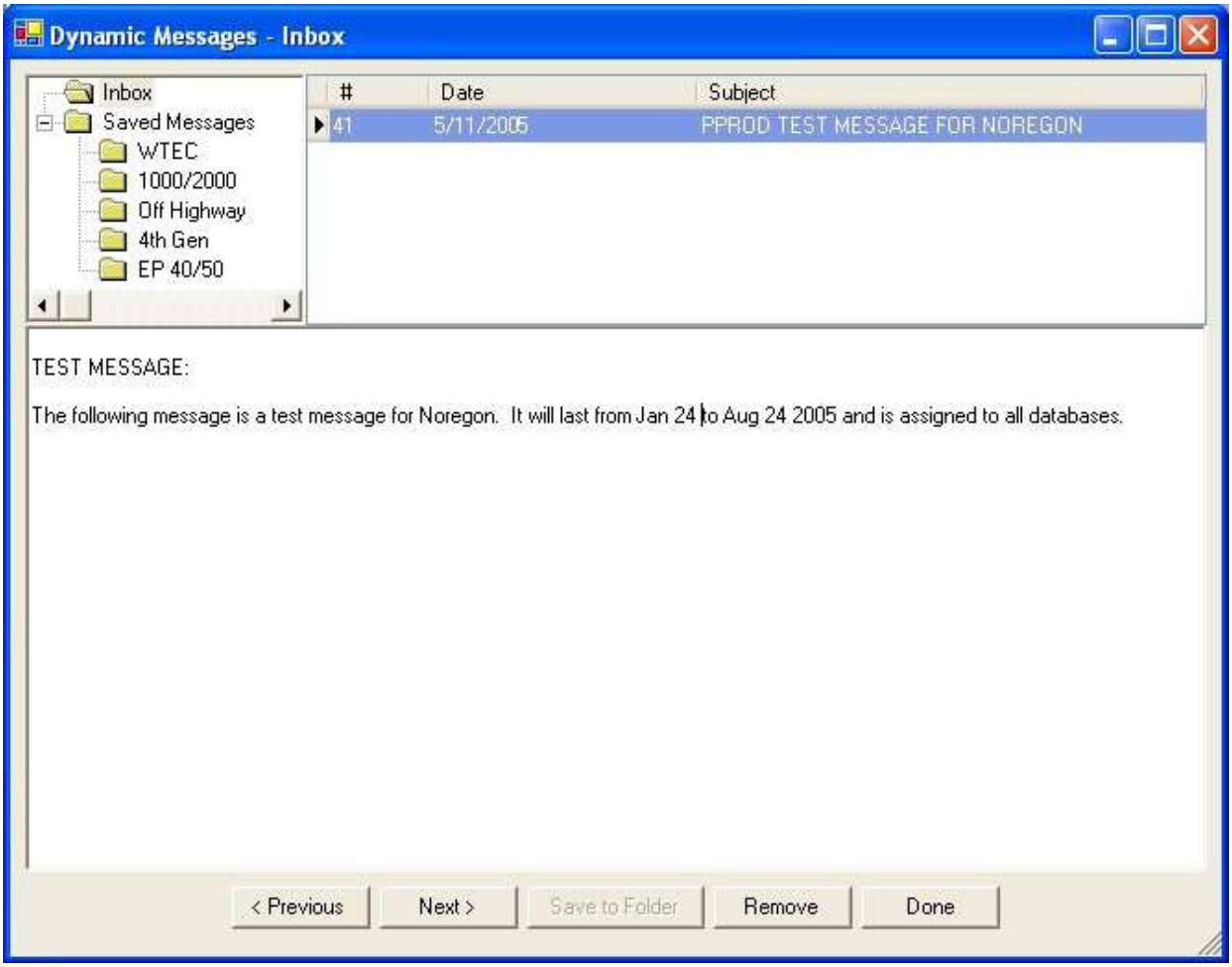
Note:
Contact your local IT Manager for help entering proxy server information. Allison Transmission does not know your local proxy address, domain, user name, or password.

Buttons:

- OK—submits the access information.
- Cancel—displays the Login screen.
- Reset proxy—removes current proxy settings.

2.3 Dynamic Messages Viewer

The Dynamic Messages Viewer displays messages from the host server. The Dynamic Messages Viewer operates in a similar manner to an e-mail system. Messages can be displayed, deleted, or moved into a folder. Dialog boxes are displayed to create, delete, or access the folders displayed in the folder tree.

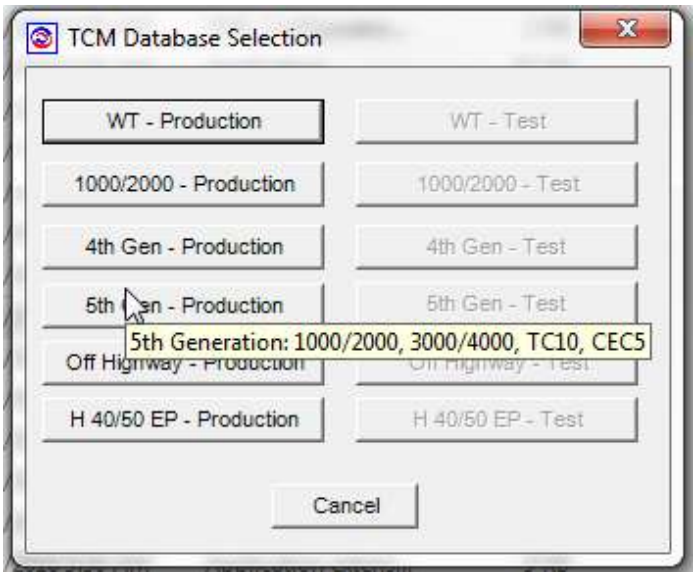


Buttons:

- Previous—displays the previous message in the message queue.
- Next—displays the next message in the message queue.
- Save to Folder—saves the displayed or highlighted message to a message folder. Saved messages can be viewed at a later time. Messages may also be moved into a folder by dragging and dropping.
- Remove—deletes the message.
- Done—closes The Dynamic Message Viewer and displays the *TCM Database Selection* dialog box.

2.4 TCM Database Selection

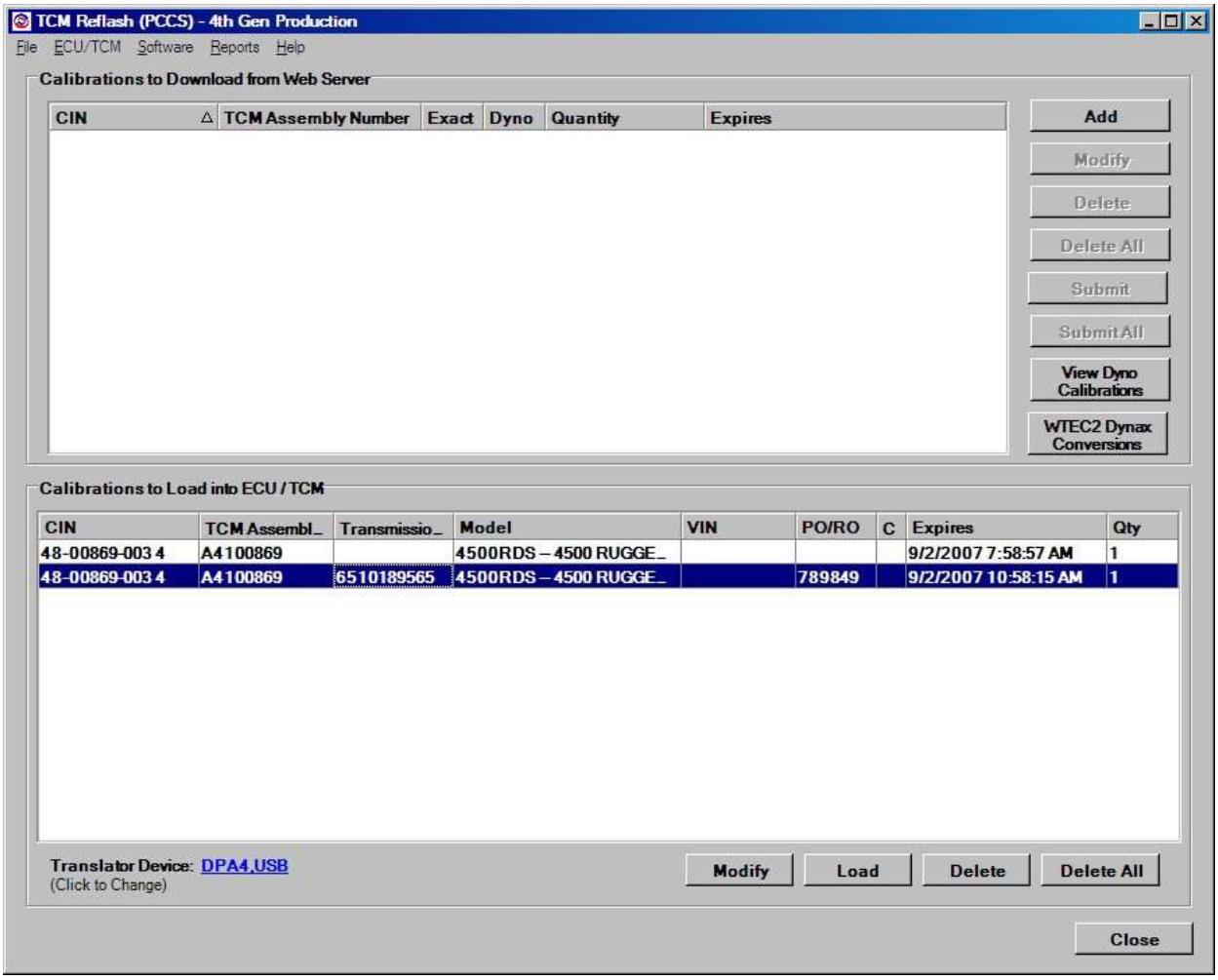
The *TCM Database Selection* dialog box displays all calibration databases available to the user. Any database that is not available is grayed-out and the button deactivated. Click the button of an available database to select that database. After selecting a database, the Main Calibration screen displays.



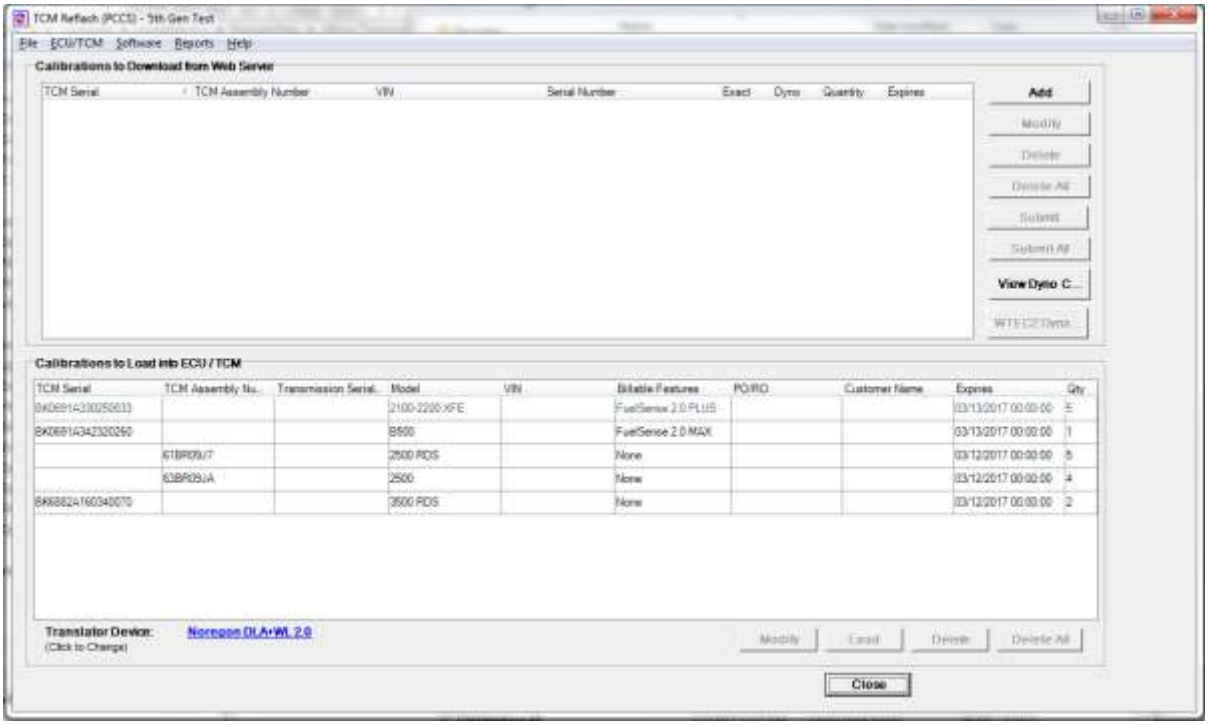
2.5 Main Calibration Screen

The Main Calibration screen serves as the feature control screen for TCM Reflash activities. This screen is divided into two sections: the upper half is Calibrations to Download from Web Server, and the lower half is Calibrations to Load into ECU/TCM. Each section contains different buttons that are available only when the respective section is selected. The Main Calibration screen contains five drop-down menus which provide access to various TCM Reflash (PCCS) features.

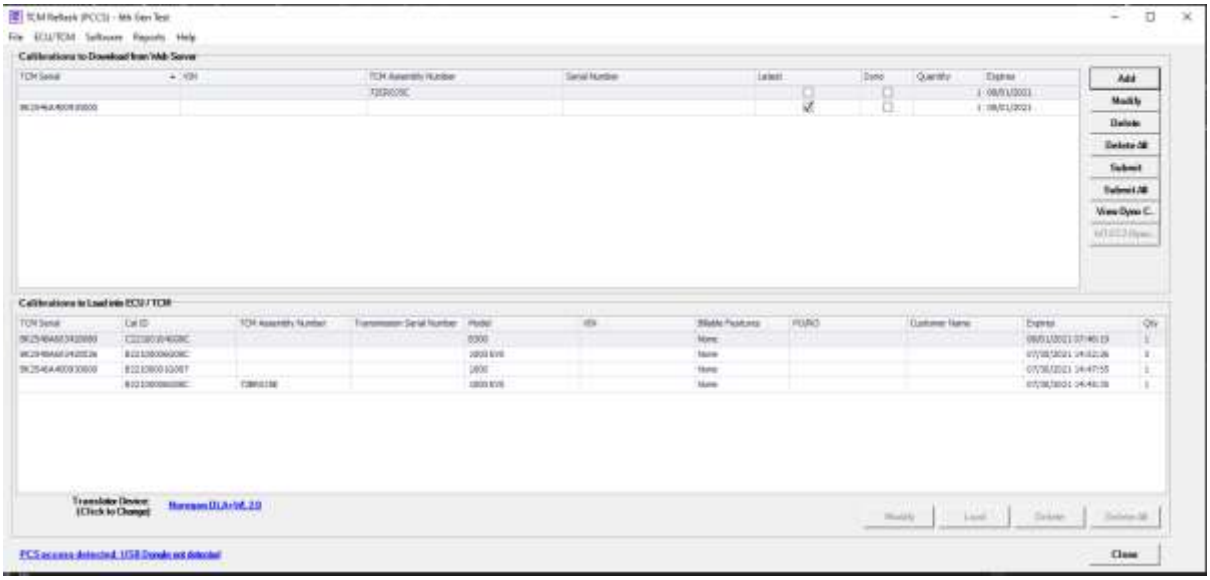
4th Generation screen



5th Generation screen



6th Generation screen



Main Calibration Screen Sections:

- Calibrations to Download from Web Server—lists all calibrations available to be downloaded from the host server (PCCSWeb/CDS).
- Calibrations to Load into ECU/TCM—contains all calibrations already downloaded from PCCSWeb/CDS to the PC, and ready to be loaded into TCM/ECUs.

Note:

The command buttons in each section are enabled only when a row in the section is selected or active.

2.5.1 Calibrations to Download from Web Server

Fields:

- CIN—Calibration Identification Number of the calibration to be downloaded. The CIN only appears if specified by the user. This field is not present in the 5th/6th Generation screen.
- TCM Serial—S/N of the TCM to be programmed with the calibration (5th/6th Generation only).
- TCM Assembly Number—the assembly number or part number to be applied to the TCM. The TCM Assembly Number only appears if specified by the user.
- VIN—Vehicle Identification Number (5th/6th Generation only).
- Serial Number—Transmission S/N (5th/6th Generation only).
- Exact—indicates whether the user required the exact CIN specified in the *Calibration to Download Information* dialog box, or not. If the user requests the calibration with the TCM Assembly Number, the system always requests the latest calibration associated with that Assembly Number.
- Latest—only valid for 6th Generation when specifying TCM Serial Number, VIN, or Transmission Serial Number (i.e., not TCM Assembly Number). Default is not latest, which means that the previously-flashed software level will be downloaded; if Latest is checked, the latest software will be downloaded.
- Dyno—indicates if the calibration to download is for a Stock or Dyno TCM/ECU.
- Quantity—indicates the number of calibrations to be requested/downloaded from the host server.
- Expires—displays the expiration date of current calibration request. A calibration expires 10 days from the day on which the entry was made.

Buttons:

- Add—displays the *Add Calibration to Download Information* dialog box.
- Modify—displays the *Update Calibration to Download Information* dialog box for a selected/highlighted calibration.
- Delete—deletes a selected calibration from the current display.
- Delete All—deletes all calibrations from the current display.
- Submit—requests only the selected or highlighted calibration to be downloaded and for Allison distributor/dealers, displays the *Calibration Verification/Request* dialog box.
- Submit All—requests all calibrations from the current display to be downloaded. For each calibration to download, the user, if an Allison distributor/dealer, must input the required data in the *Calibration Verification/Request* dialog box.
- View Dyno Calibrations—displays all the calibrations available for Dyno use.
- WTEC2 Dynax Conversions—displays an alphabetized cross-reference list allowing users to look up WTEC II Dynax calibration conversions.

2.5.2 Calibrations to Load into ECU/TCM

Fields:

- CIN—Calibration Identification Number of the calibration to be loaded into a TCM. This field is not present in the 5th/6th Generation screen.
- TCM Serial—S/N of the TCM to be programmed with the calibration. This field is only present on the 5th/6th Generation screen.
- Cal ID—only valid for 6th Generation when TCM Serial Number, VIN, or Transmission Serial Number (i.e., not TCM Assembly Number) was specified.
- TCM Assembly Number—the assembly number or part number to be applied to the TCM.
- Model—Transmission model based on the calibration information.
- Billable Features—calibration software options (namely, FuelSense®). This field is only present on the 5th/6th Generation screen.
- Customer Name—the name of the customer/company (previously specified).
- Expires—displays the expiration date of the current calibration. A calibration expires 10 days from the day on which the entry was made.
- Quantity—the number of copies of a calibration with the same CIN available to load into ECU/TCMs. If more calibrations are required, click on the **Modify** command button.

Allison distributors/dealers will also see the following columns:

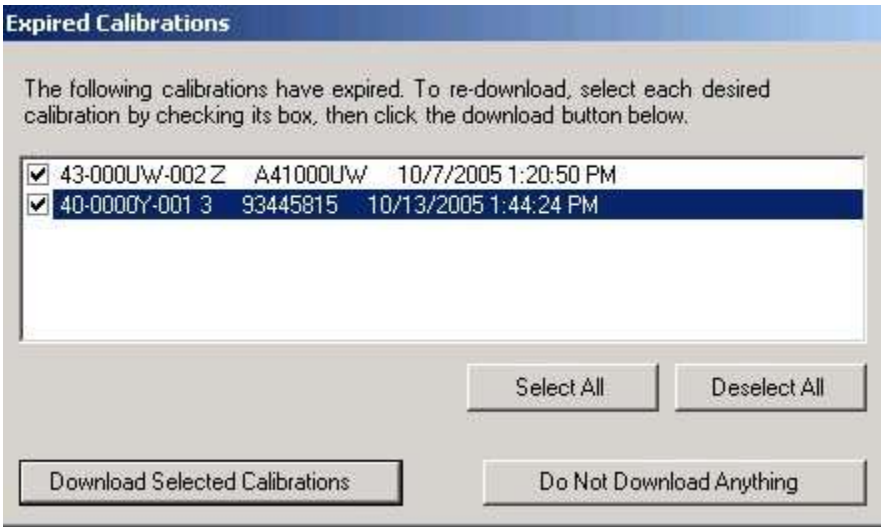
- Transmission Serial Number—the 10-digit serial number of the transmission the ECU/TCM is used with.
- VIN—the 17-character Vehicle Identification Number the ECU/TCM is used with.
- PO/RO—Purchase order or repair order number. This field is used as a reference number only for use by the user.

Buttons:

- Modify—displays the *Add Calibration To Download Information* dialog box for the selected/highlighted calibration. Use Modify when more calibrations (with the same CIN) are required.
- Load—applies a selected calibration to the TCM.
- Delete—deletes a selected calibration from the current display.
- Delete All—deletes all calibrations from the current display.

2.5.3 Calibrations Older than Ten Days

Calibrations expire after 10 days. The application displays messages indicating which calibrations have expired with the option to re-download them. If the user chooses not to download them, the application removes them from the load station.



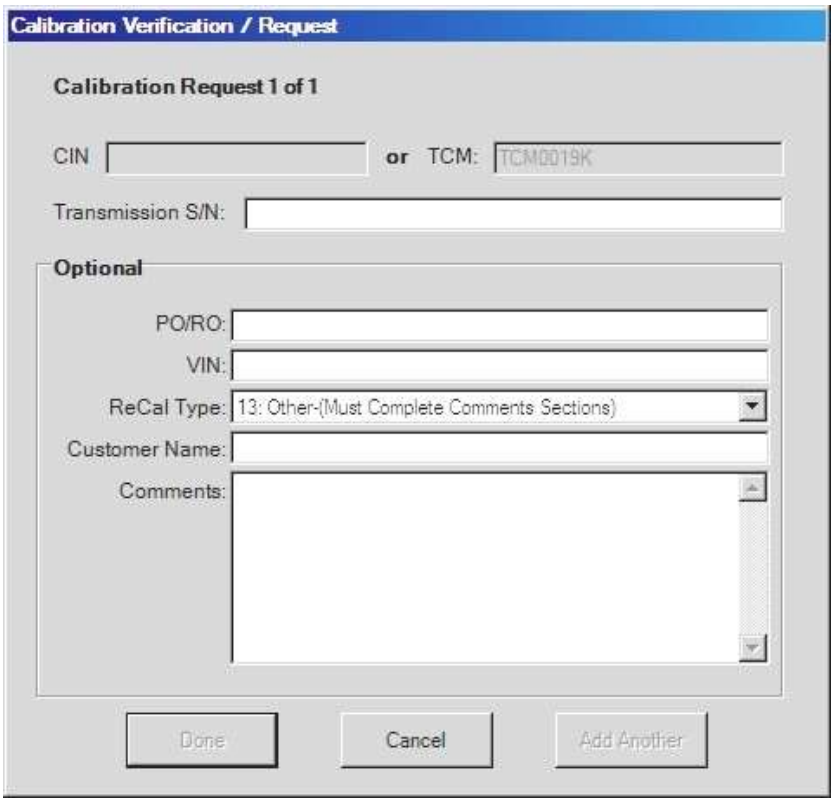
To re-download expired calibrations:

1. Select the calibration by checking the box or use the **Select All** button to select all displayed calibrations.
2. Click the **Download Selected Calibrations** button.

If no expired calibrations are to be re-downloaded, click the **Do Not Download Anything** button.

2.6 Calibration Request (Allison Distributors/Dealers Only)

The *Calibration Verification/Request* dialog box checks to make sure there is not a vocational mismatch between the calibration and the transmission, based upon the Transmission Serial Number. The **Done** button submits the calibration request.



The following fields are required information:

- Calibration request X of Y—indicates the current calibration request count (X), the quantity entered by the user when the calibration was staged for downloading (Y).
- CIN—displays the Calibration Identification Number of the calibration to request, when available.
- TCM—displays the TCM Assembly number, when available.
- Transmission S/N—the transmission serial number of the unit in which the current calibration will be installed. Once submitted, the PCCSWeb system checks for (1) calibration validity, (2) transmission serial number validity, and (3) vocational mismatch (that is, the calibration is not compatible with the specified transmission).

The following fields are optional information:

- PO/RO—allows the user to enter the production order or the repair order.
- VIN—the Vehicle Identification Number.
- ReCal Type—select or enter the reason for recalibrating the ECU/TCM.
- Customer Name—identifies the customer.
- Comments—input any comments with respect to the present activity.

Buttons:

- Done—sends the request to verify and download the displayed calibration. This button is not enabled until a Transmission S/N is entered.

> **Note:**
>
> If more than one copy of a calibration is being requested, enter the information for each copy in the *Calibration Verification/Request* dialog box, using the **Add Another** button, before clicking the **Done** button.

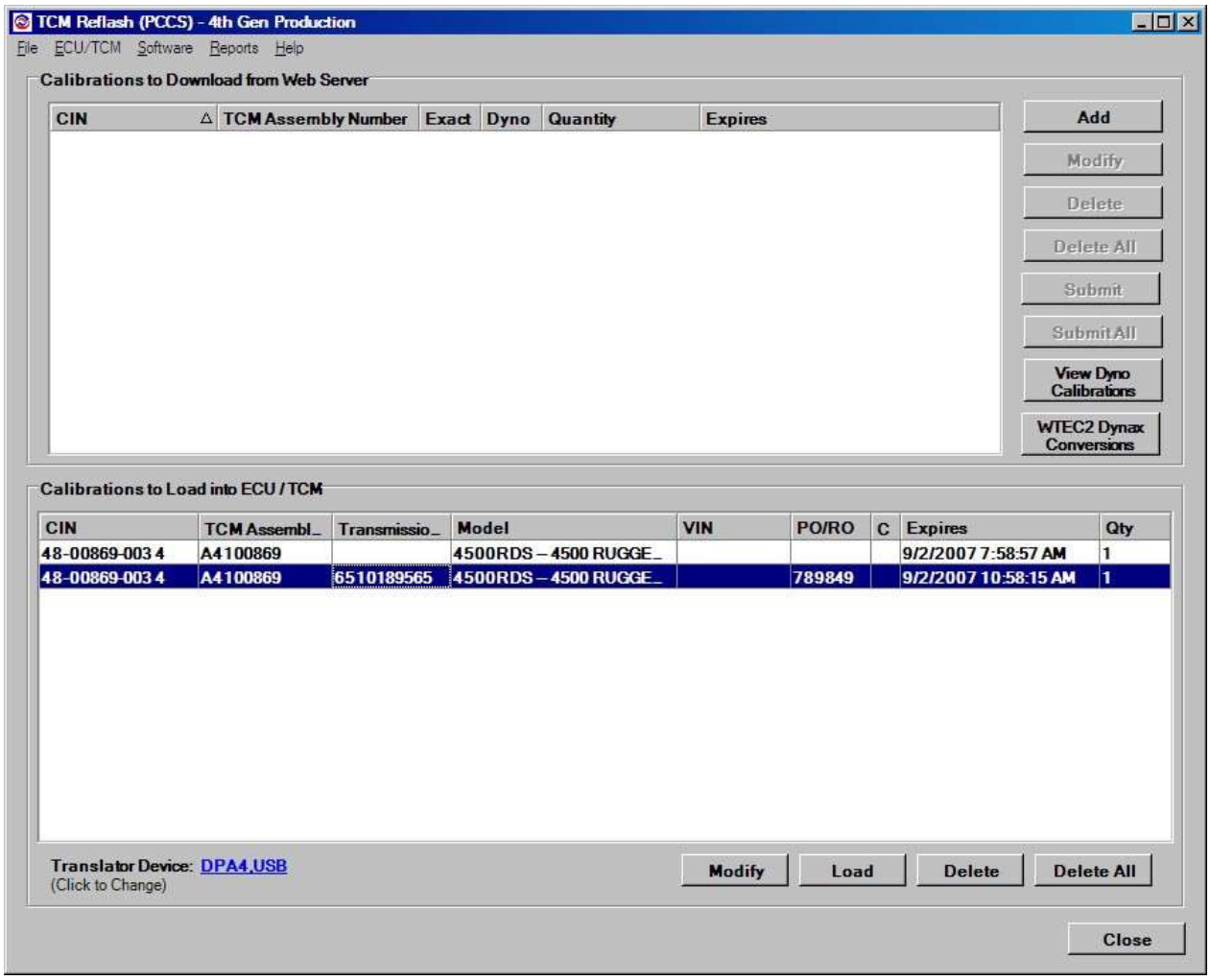
- Cancel—cancels the current calibration request and displays the Main Calibration screen.

> **Note:**
>
> When the **Cancel** button is clicked, information entered in the *Calibration Verification/Request* dialog box is lost. If a user requires ten copies of calibration CIN "XYZ," and they enter the required information for five copies using the **Add Another** button, and while entering the sixth request clicks **Done**, only the five entered requests will be sent and they must start over to request the remaining five calibration copies.

- Add Another—adds another calibration to the calibrations to download, increments the X in the X of Y field by one, and displays the *Calibration Verification/Request* dialog box.

> **Note:**
>
> To add another calibration with the same CIN, a value greater than 1 must have been entered in the Quantity field of the *Calibrations to Download from Web Server* section of the Main Calibration screen.

2.7 Main Calibration Screen Drop-down Menus



TCM Reflash Main Calibration screen contains five drop-down menus:

- File
- ECU/TCM
- Software
- Reports
- Help

2.7.1 File Menu

The File menu contains the following items:

- Application Setup—displays current configuration of the TCM Reflash application for the following:
  - Communications adapter
  - Printer port to print barcodes
  - Reading/writing speed
  - Customer name
  - Connector information – Reflash Harness vs. In Vehicle (for 5th/6th Generation only)

The adapter chosen is specific to the database selected; therefore, a user could have the DPA USB selected for the WT Database, or the Softing CanCard2 selected for the H 40/50 EP Database. The user must select the correct adapter while in each database they are using in order to load a calibration.

Note:

Adapter Wireless or Bluetooth connections for TCM Reflash are not allowed.

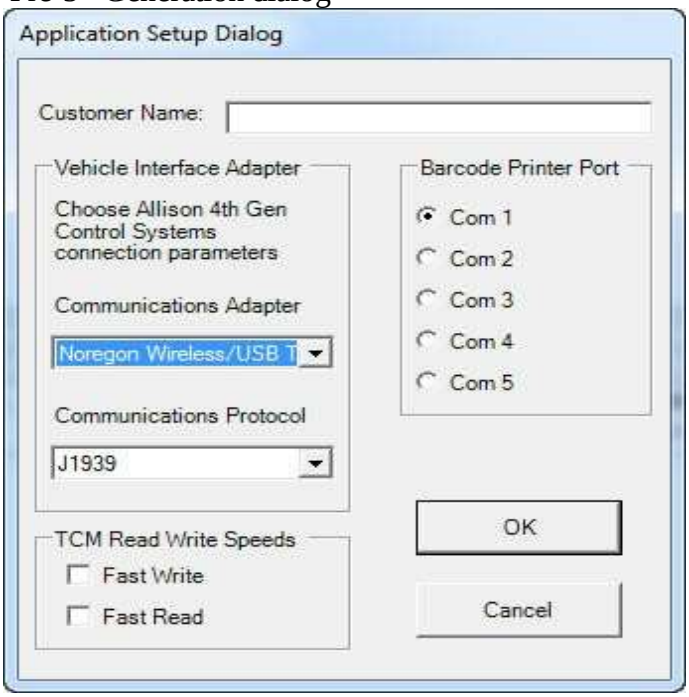
Fast Write and Fast Read are **not** checked by default. The user has the option to check these boxes to decrease the amount of time it takes to load calibrations. If the user experiences problems with making it part way through a TCM load and receives an error, the check boxes can be toggled off to slow calibration load speed down and possibly fix the load error.

Note:

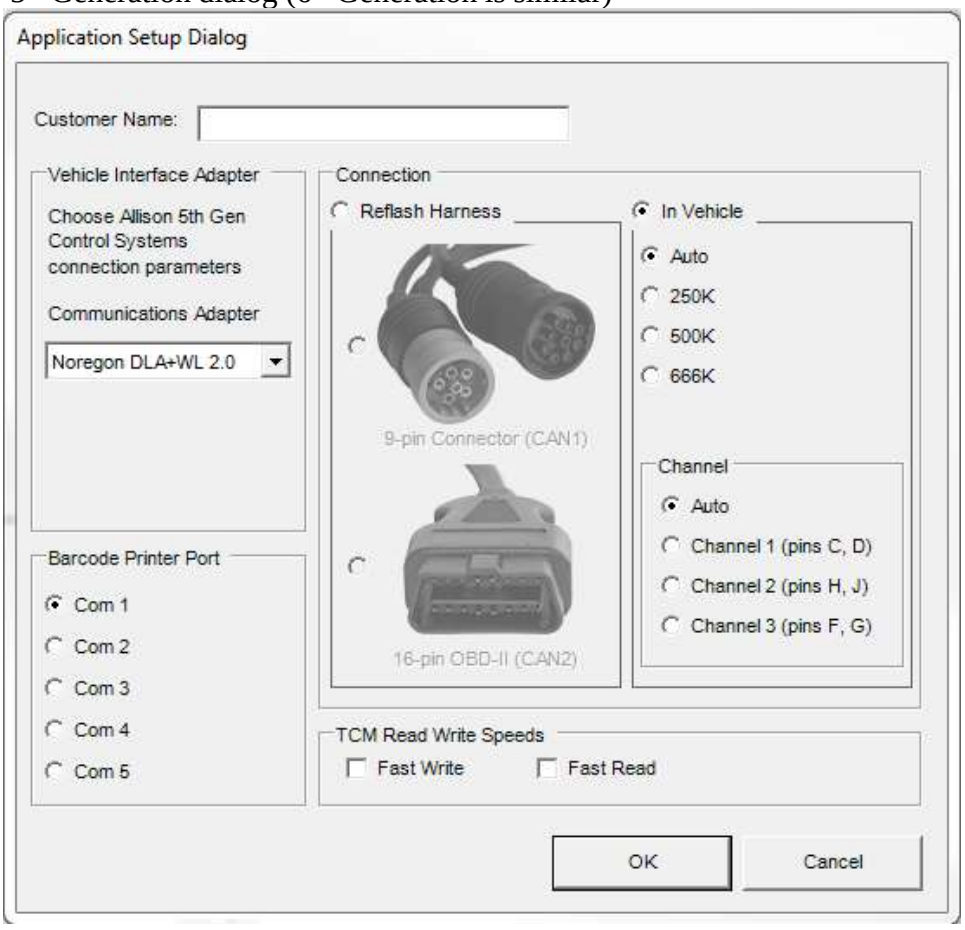
H 40/50 EP users should turn Fast Write and Fast Read off (unchecked).

A Communications Protocol drop-down box displays when the Allison 4th Generation is selected to allow the user to select CAN (***J1939***), or High Speed CAN-***GMLAN*** (HSC). The user should select J1939 if using the 9 pin connector, and GMLAN if using the 16 pin J1962 connector with the GMLAN cable. The adapters in the other databases rely on TCM Reflash to attempt a CAN/J1939 connection first, or default to a J1708 connection if the CAN connection fails.

Pre-5th Generation dialog



5th Generation dialog (6th Generation is similar)



Note:

The *Application Setup Dialog* box can also be viewed by clicking the link following Translator Device on the Main Calibration screen.

Note:

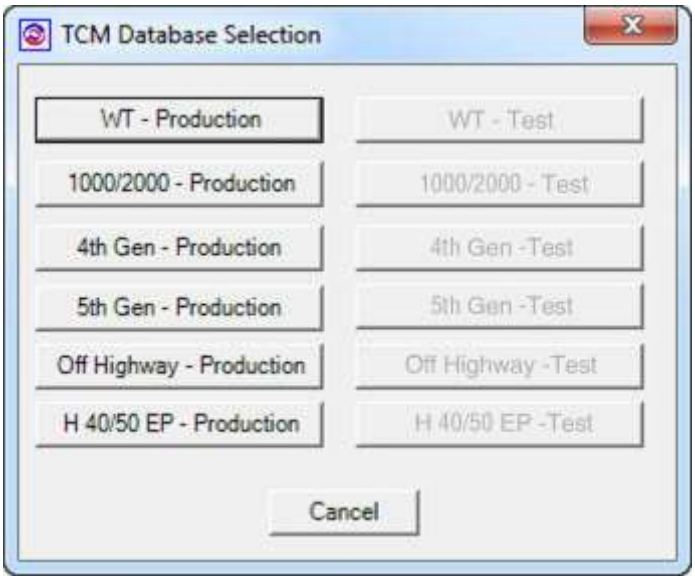
For maximum 5th/6th generation TCM capabilities, use RP1210C or higher Translator Devices. Options in the **In Vehicle** section of the *Application Setup Dialog* are only enabled if specified by installed drivers.

If **In Vehicle→Auto** is selected, TCM Reflash sends this option to the Translator Device to determine the connection speed.

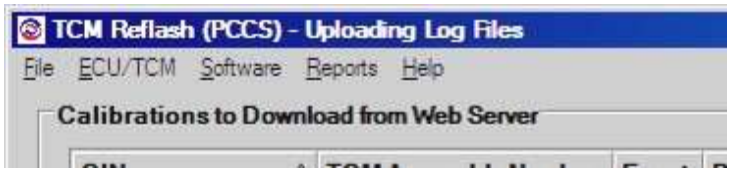
If **In Vehicle→Channel→Auto** is selected, TCM Reflash tries each of the Channels until a successful TCM connection.

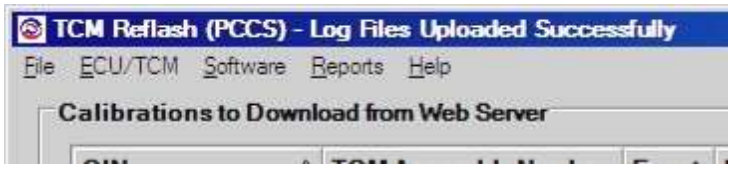
Auto is recommended.

- Select Database—displays the *TCM Database Selection* screen. All calibration databases available to a particular user are displayed. This window allows the user to select the transmission control system database from which a calibration is desired. Any database that is not available is grayed-out and its button is deactivated.

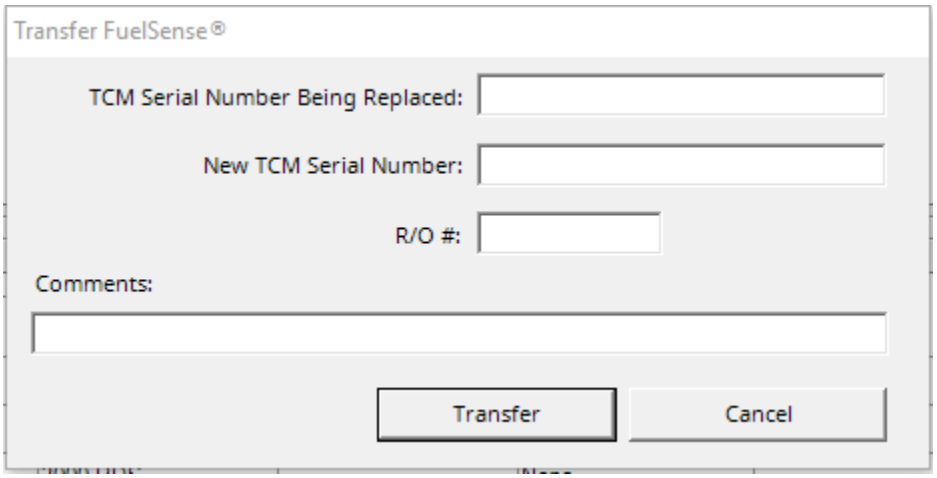


- Check Connection—determines if the PC is connected to the Internet.
- Upload Logs—initiates uploads of Load Transaction logs to the PCCSWeb/CDS server to maintain records of the transactions related to a particular TCM. The changing text in the title bar from the selected TCM database to *Uploading Log Files* indicates the logs are being uploaded. Once the files have uploaded successfully, the text changes to *Log Files Uploaded Successfully*. If the upload fails or is incomplete, a message displays indicating the status of the upload effort.





- Transfer FuelSense® 2.0 Package—displays Transfer FuelSense® dialog.



If the user chooses to **Transfer**, initiates an entitlement transfer in CDS. This menu item is only available for 5th/6th Gen databases and the user should be connected to CDS for successful server communication. If not currently connected to CDS, a transfer record is saved locally and will be uploaded when an internet connection is available.

- Proxy Settings—displays Enter Proxy Information dialog to show current settings and allows user to modify/reset them if necessary.
- Logout User—logs the current user out of the system and displays a confirmation message. Clicking the **Yes** button logs the user out and displays the TCM Reflash Login screen.
- Close—exits the TCM Reflash system.

2.7.2 ECU/TCM Menu

The ECU/TCM menu contains the following items:

- Load Service Calibration—loads a special service calibration into the TCM/ECU.
- Erase Power Off Data—forces the TCM to erase all learned data saved in memory when the vehicle ignition is turned off. After the data is erased, the TCM uses factory values.

2.7.3 Software Menu

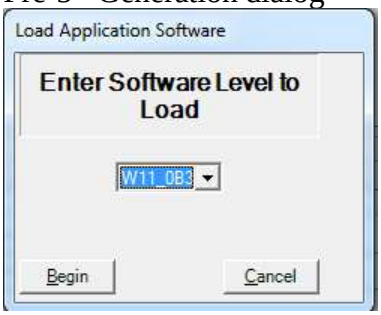
The Software menu contains the following items:

- Download from Server—displays the *Download Application Software* dialog box to initiate the application software download from the PCCSWeb server. This item is not available for 5th/6th Generation.

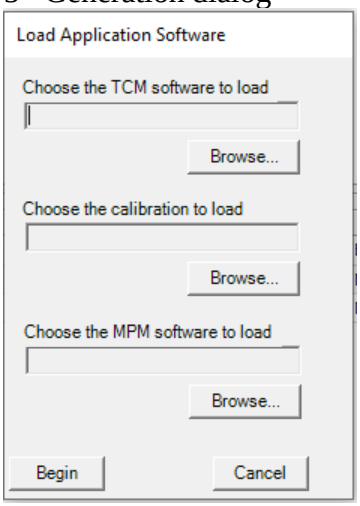


- Apply to TCM—loads the application software downloaded from the server into a TCM; for 5th Generation, loads the application software, calibration, and MPM software; for 6th Generation, loads the application TCM software and calibration.

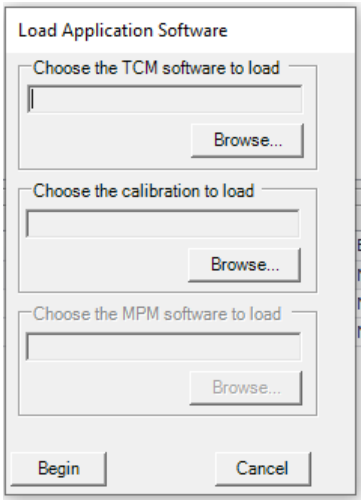
Pre-5th Generation dialog



5th Generation dialog



6th Generation dialog



2.7.4 Reports Menu

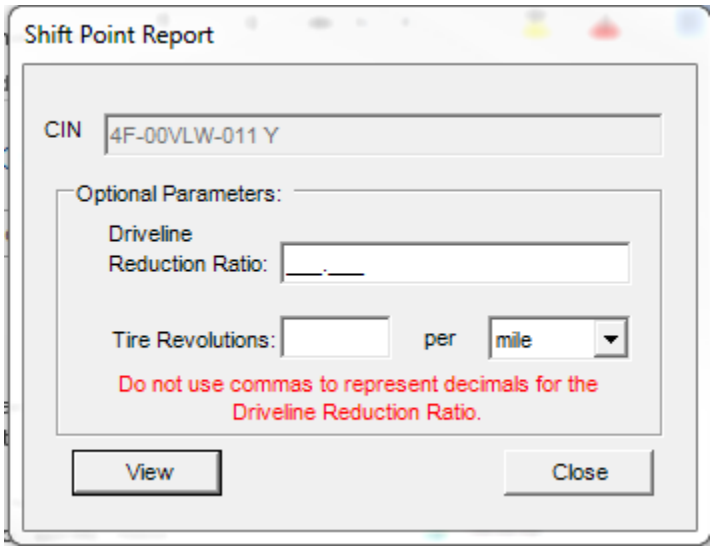
Prior to using Report menu item, select a calibration from the Calibration to Load into ECU/TCM screen section. The Reports menu contains the following items:

- Summary Report for Calibration to Load—displays the calibration's summary report. The report can be printed, saved (Print to File), or closed.

> **Note:**
> For 5th/6th Generation Controls, use your Allison HUB account to access Summary Reports.

- Shift Points Report for Calibration to Load (pre-5th Generation) or Shift Points Report for connected TCM (5th/6th Generation)—displays the *Shift Point Report* dialog box. If the Driveline Reduction Ratio and Tire Revolutions per Mile/Kilometer field values are zero (the default), the Shift Point Report will include the transmission turbine shaft speed before and after the shift, and the transmission output shaft speed at the shift.
- Print Calibration List—prints all calibrations located in the active section of the Main Screen (Calibrations to Download from Web Server, or Calibrations to Load into ECU/TCM).
- Print TCM Labels for Calibration to Load—prints a TCM/ECU barcode label on the Intermec label printer. The Intermec drivers must be installed separately.

Regarding Shift Points Reports menu item: If the Driveline Reduction Ratio and the Tire Revolutions per Mile/Kilometer values are other than zero, the Shift Point Report will also include the vehicle speed in mph.



Fields**:**

- CIN—the CIN of the calibration selected for the Shift Point Report.
- Driveline Reduction Ratio—the gear reduction of the driveline.
- Tire Revolution per Mile/Km— tire revolution per unit of measure. English (Rev/Mile), and Metric (Rev/Km).

Buttons:

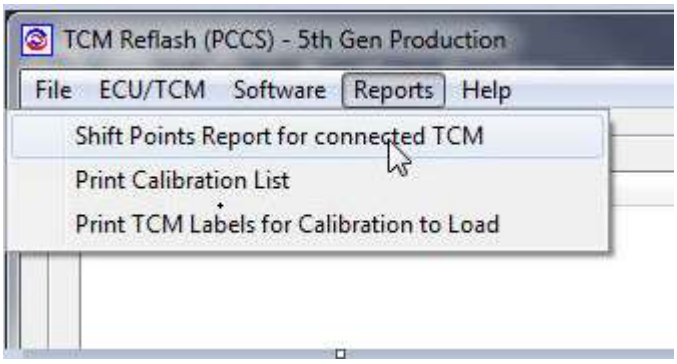
- View—displays the Calibrations' Shift Point Report, which can be printed or saved.
- Close—cancels the Shift Point Report request.

> **Note:**
> Do not use commas to represent decimals for the Driveline Reduction Ratio.

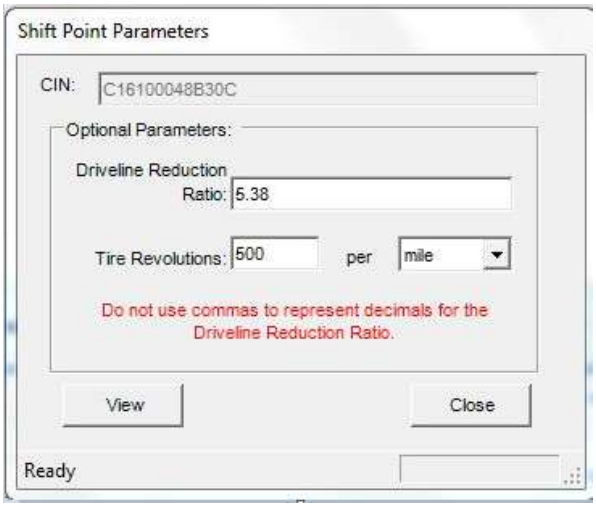
To obtain 5th/6th Gen shift point reports:

> **Note:**
> 5th/6th Gen shift point reports can only be obtained while connected to a TCM containing the calibration being investigated. The process involves reading calibration values from the TCM and takes approximately 2 minutes to prepare the report.

1. Physically connect 5th/6th Gen TCM to PC and power-up.
2. Log onto TCM Reflash and select the **5th Gen** or **6th Gen** database (see 3.1).
3. If necessary, load desired calibration onto TCM (see 3.3).
4. Access 5th/6th Gen shift point reports using the "**Reports**" menu.



5. Select "**Shift Points Report for connected TCM**"; the *Shift Point Parameters* dialog box displays.

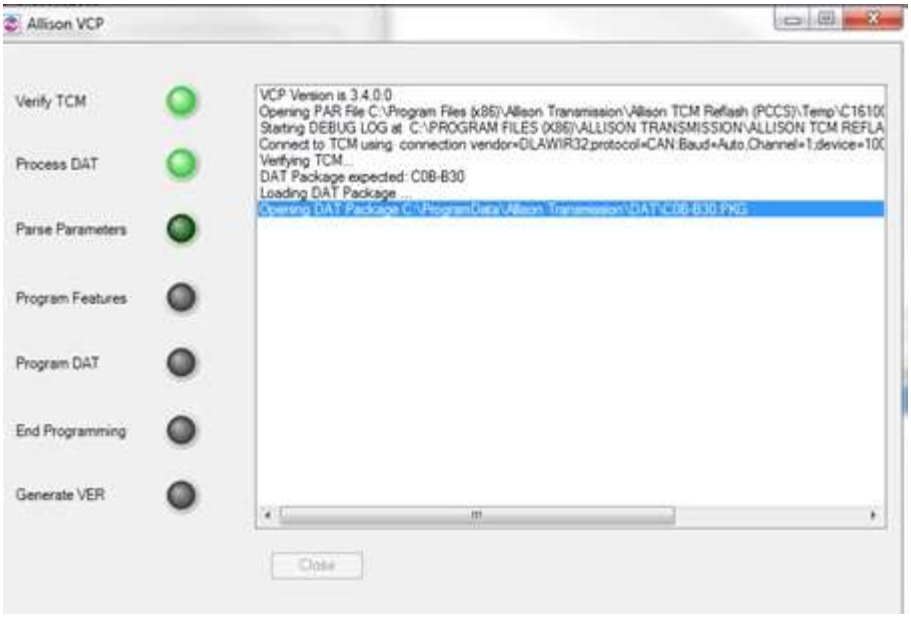


6. As in above screenshot, enter "**Driveline Reduction Ratio**" and "**Tire Revolutions**" per distance, if known.
7. Click "**View**" button.
8. TCM Reflash will read the TCM calibration and prepare the shift point report. The process lasts approximately 2 minutes.

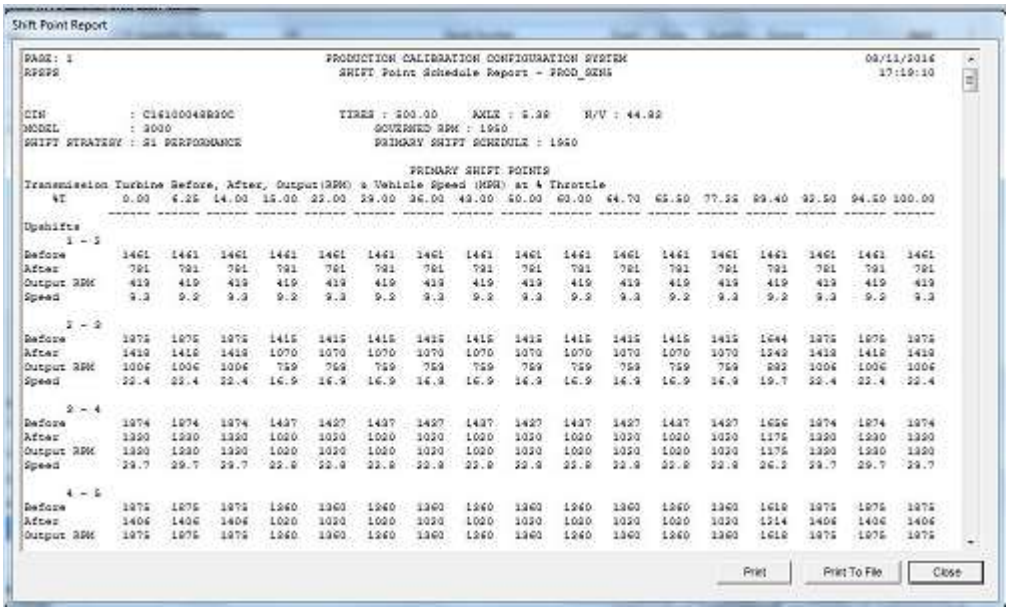
   The following screens will appear:




Read-Write TCM
TCM Info
Calibration
Program
Dump
SID
Actions
Options
Help
write program
write cal
info
read cal
fast learn
abort
help
Years of Excellence
Allison Transmission
Gen5 rearch
recover
com
inhibits
write prog+cal
erase
detect
unadapt
Reading power off data
18%


Allison VCP
Verify TCM
Process DAT
Parse Parameters
Program Features
Program DAT
End Programming
Generate VER
VCP Version is 3.4.0.0
Opening PAR File C:\Program Files (x86)\Allison Transmission\Allison TCM Reflash (PCCS)\Temp\C1610
Starting DEBUG LOG at C:\PROGRAM FILES (X86)\ALLISON TRANSMISSION\ALLISON TCM REFLA
Connect to TCM using connection vendor=DLAWIR32,protocol=CAN,Baud=Auto,Channel=1,device=10
Verifying TCM...
DAT Package expected: C08-B30
Loading DAT Package ...
Close

9. When complete, TCM Reflash presents the shift point report in a text file.

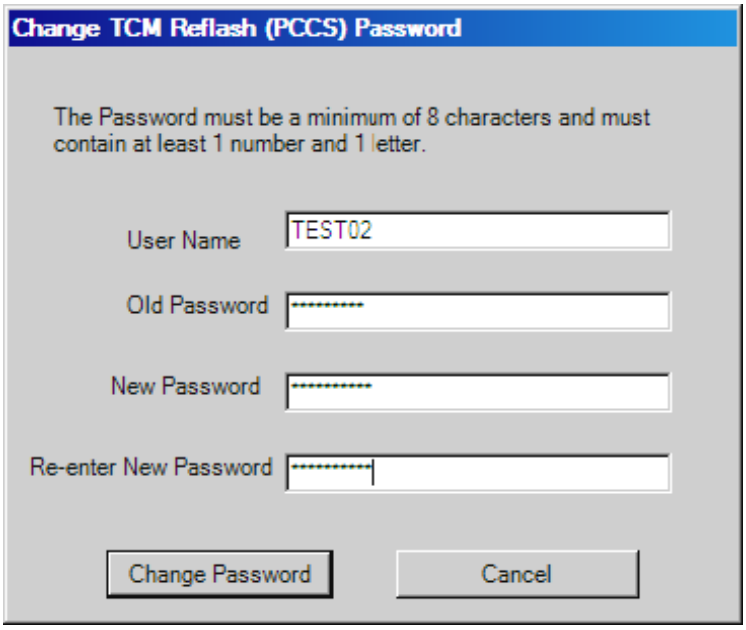


10. Select **Print**, **Print to File** (Save), or **Close**.

2.7.5 Help Menu

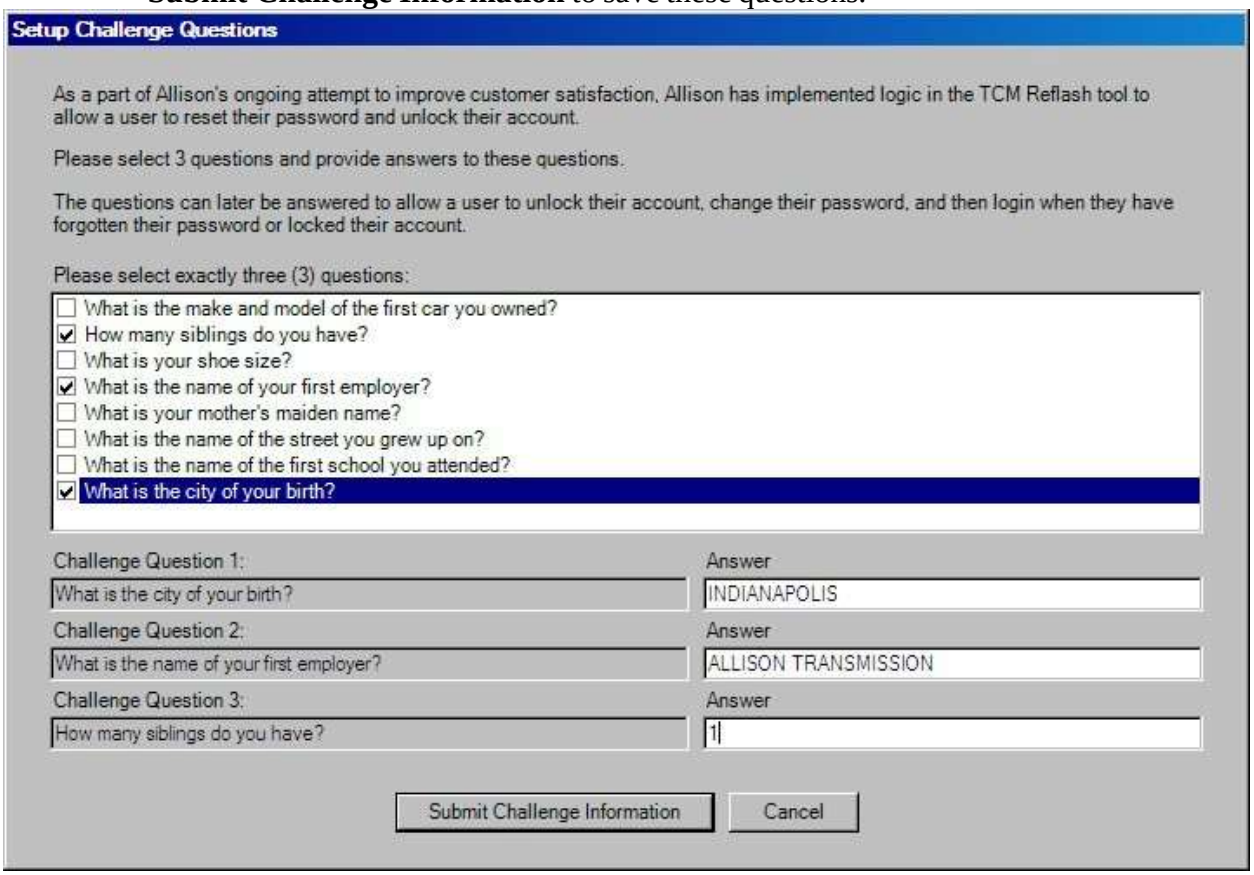
The Help menu contains the following items:

- Help Topics—displays the Help Topics window, which contains information based on the User Guide.
- Change Password—initiates the Change Password procedure on the PCCSWeb server and displays the *Change Password* dialog box. Passwords must be eight characters or more and contain at least one alpha and one numeric character. A password cannot be the same as the username.



- Setup Challenge Questions—allows the user to set up challenge questions**.** Challenge

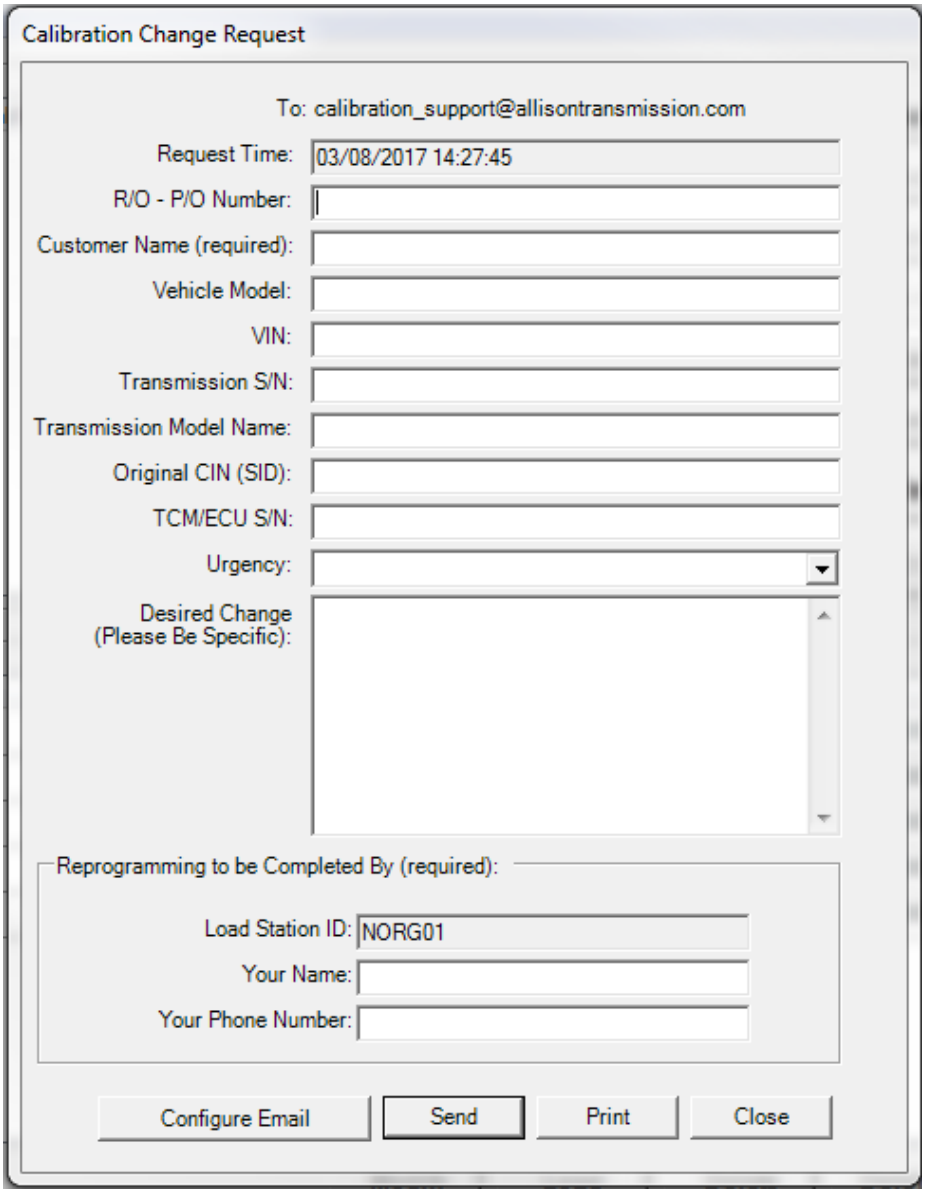
questions are used as a security measure. Select exactly three challenge questions to be used as identity verification (in case the password needs to be reset). Click **Submit Challenge Information** to save these questions.



- Calibration Verification/Request—displays the *Calibration Verification/Request* dialog box (for further details, refer to section 3.2.3).
- Calibration Change Request—displays a form to request a calibration number from Allison Transmission. Once required and optional information is entered, do one of the following:
    - Click **Send** to submit the request, or

> **Note:**
> In order to successfully submit this request, the TCM Reflash e-mail feature must be compatible with the local e-mail system. Seek help from the IT department to correctly configure TCM Reflash e-mail.

    - Click **Print** to print a hard copy of the entered information.



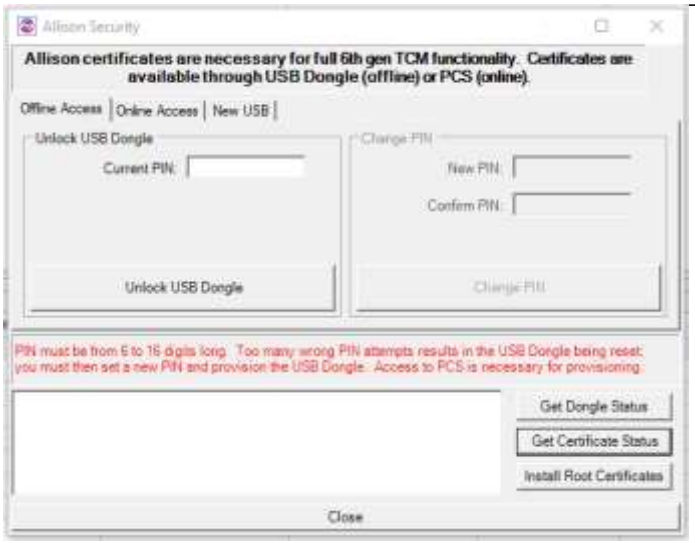
- Dynamic Messages—displays the Dynamic Message Viewer.
- Allison Security—refer to Section 2.7.5.1
- Access to Allison Web Site— provides a link to the Allison Transmission website.
- About—displays TCM Reflash program and version information.

2.7.5.1 Allison Security

This menu item is only needed for 6th Gen controls; to enhance security, Allison certificates are required to flash 6th Gen TCMs. Certificates are available online or offline.

For online users, TCM Reflash automatically uses the initial login credentials to access certificates via PCS.

For offline users, certificates are obtained via USB dongle. Visit AllisonStore.Noregon.com for information on the USB dongle.



To access certificates via USB dongle:

1. Insert USB dongle to PC's USB port
2. Access **Allison Security** dialog
3. Ensure that you are on the **Offline Access** tab (displayed above)
4. Enter **Current PIN** of USB dongle
5. Click **Unlock USB Dongle**
6. A success message should display with #signs left on the USB dongle

Note:

Entering an incorrect PIN multiple times resets the USB dongle to a **New USB** state.

Note:

Once the USB dongle is unlocked, the #signs is displayed in the main screen bottom status bar.



This number decrements with flashing events. When this number becomes too low, reprovision the USB dongle through the **Online Access** tab.

Note:

The **Allison Security** dialog may be accessed via **Help** menu or the bottom status bar.

To change USB dongle's PIN:

1. Complete steps in "access certificates via USB dongle"
2. Enter **New PIN**
3. Enter the same PIN in **Confirm PIN**
4. Click **Change PIN**
5. A success message should display

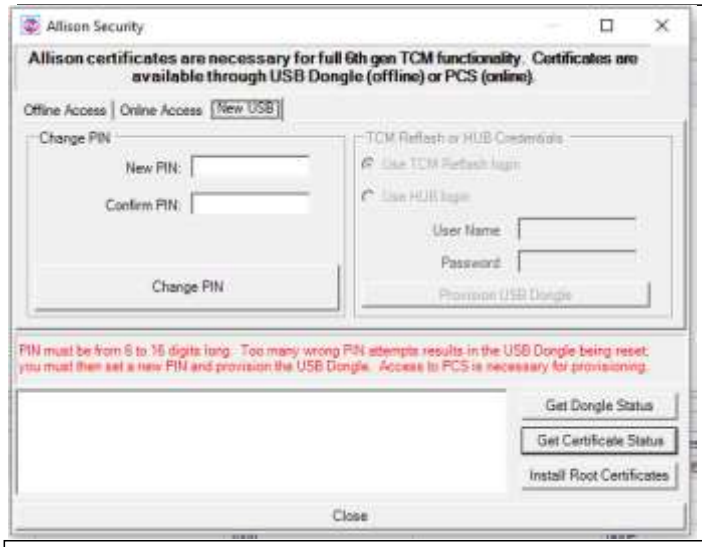
> **Note:**
>
> New PIN must be from six to sixteen digits [0-9] long.



> **Note:**
>
> PCS access is necessary to provision the USB dongle.

To reprovision USB dongle:

1. Insert USB dongle to PC's USB port
2. Access **Allison Security** dialog
3. Click **Online Access** tab (displayed above)
4. Click either **Use TCM Reflash login** or **Use HUB login**, depending on your credentials
5. Enter **Username** and **Password**
6. Enter **Current PIN**
7. Click **Provision USB Dongle**
8. A success message should display



Note:

PCS access is necessary to initiate a new USB dongle.

To initiate a new USB dongle:

1. Insert USB dongle to PC's USB port
2. Access **Allison Security** dialog
3. Click **New USB** tab (displayed above)
4. Enter **New PIN** and the same PIN in **Confirm PIN**
5. Click **Change PIN**
6. If PIN change is successful, Credentials section gets enabled
7. Click either **Use TCM Reflash login** or **Use HUB login**, depending on your credentials
8. Enter **Username** and **Password**
9. Click **Provision USB Dongle**
10. A success message should appear and #signs indicator is updated

Note:

Root certificates are necessary to validate subsequent Allison certificates and are normally installed with the TCM Reflash product. The following process may need to be done if Allison certificates are not getting validated. This process requires administrative privileges and results in system User Account Control (UAC) messages.

To install root certificates:

1. Access **Allison Security** dialog
2. Click **Install Root Certificates**
3. Confirm UAC messages

3 Using TCM Reflash

TCM Reflash (PCCS) is launched from the Allison DOC® tool File drop-down menu, or as a stand-alone application. TCM Reflash is not part of Allison DOC® but it can be invoked from within the Allison DOC® software. You can use TCM Reflash without having the Allison DOC® loaded and operating on your PC.

3.1 Launching TCM Reflash

1. From Allison DOC® File menu, select TCM Reflash. Or, from the desktop, double-click on the TCM Reflash icon—the TCM Reflash *Login* window displays.



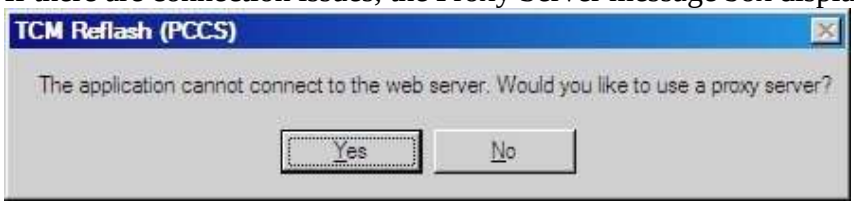
2. Enter a valid TCM Reflash user name into the Enter User Name field.
3. Enter a valid TCM Reflash password into the Enter User Password field.

> **Note:**
> After six unsuccessful attempts to log in using an invalid ID or password, the account is automatically disabled. Challenge Questions, accessed by clicking Forgot Password, allows the user to unlock the account and retrieve a temporary password. Contact the Allison Transmission Technical Assistance Center, 1-800-252-5283, if unsuccessful

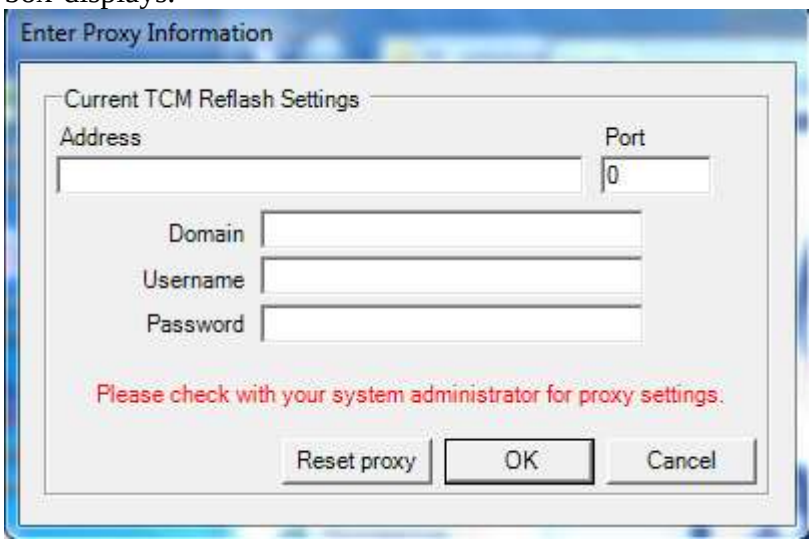
4. Click the **Login** button—a message displays asking if the User wants to connect to the PCCSWeb server. Select **Yes** to connect to the PCCSWeb server. If the User will be connecting only to the vehicle to load a calibration which has been saved to the PC, select **No**.



5. Click the **Yes** button
   - If there are connection issues, the Proxy Server message box displays.

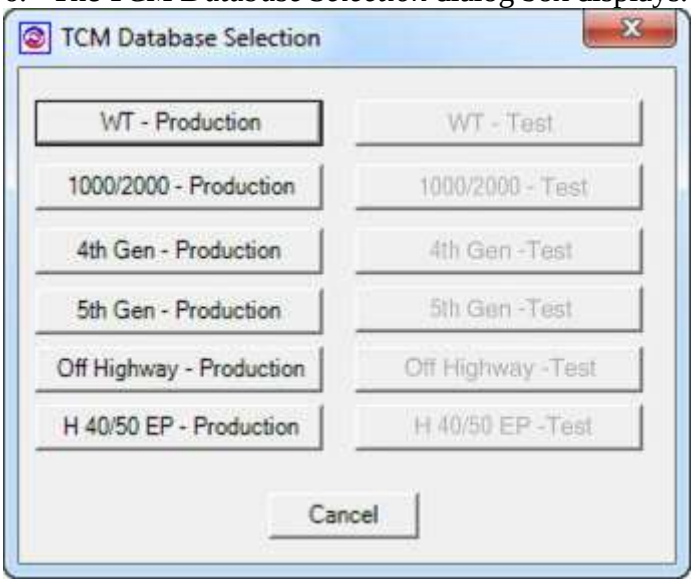


   - Click the **Yes** button in the message box—the *Enter Proxy Information* dialog box displays.



   - Enter a valid Address, Port, Domain, Username, and Password (as described in section 2.2).
   - Click the **OK** button.

6. The *TCM Database Selection* dialog box displays.



7. Select the TCM Database button for the control system of interest (at any time, the user can switch between databases from the File drop-down menu).

3.2 Downloading Calibrations From Web Server (PCCSWeb/CDS)

Before a calibration can be applied to a TCM/ECU, add the calibration to the Calibrations to Download from Web Server list and submit a request to PCCSWeb or 5th/6th Generation Calibration Delivery System for verification.

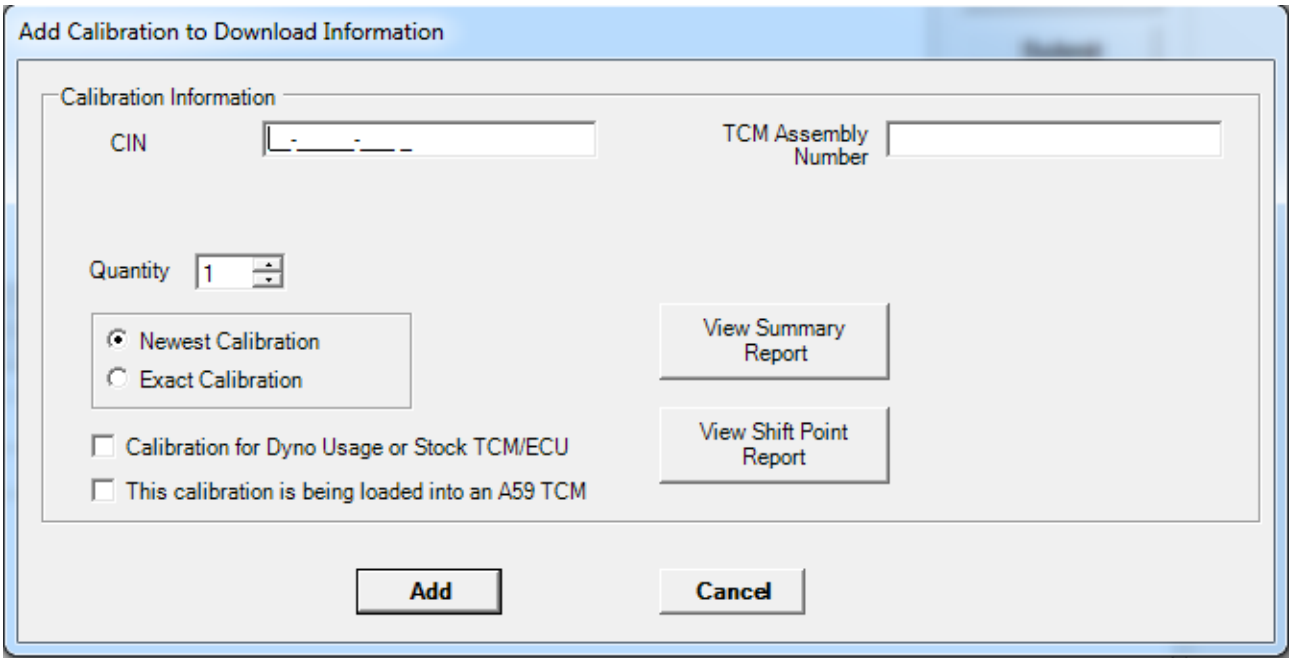
3.2.1 Adding Calibrations to TCM Reflash

1. Click or select the Calibrations to Download from Web Server section of the Main Calibration screen.
2. Click the **Add** button—the *Add Calibration to Download Information* dialog box displays.

NOTE: Context-appropriate functionality (e.g., the **Add** button) is accessible by pressing the right mouse button over the Calibrations to Download grid.



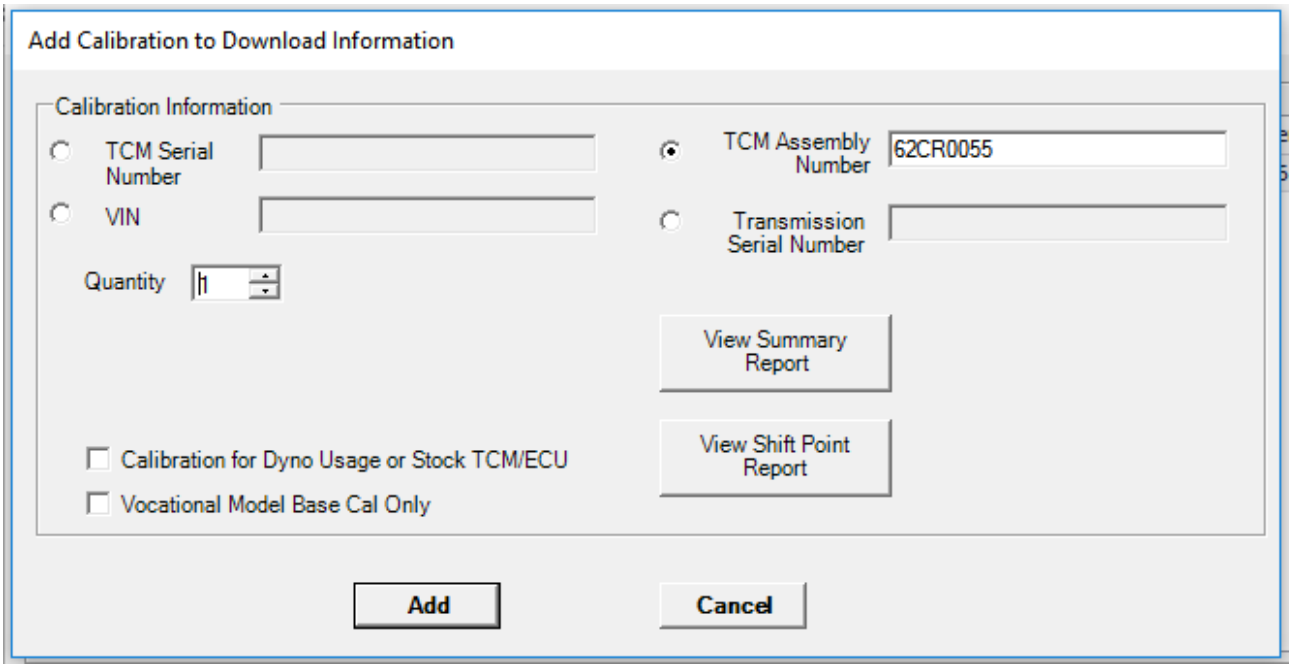
4th Generation and earlier dialog box



5th/6th Generation Full (Road Ready) calibration dialog box

Note:

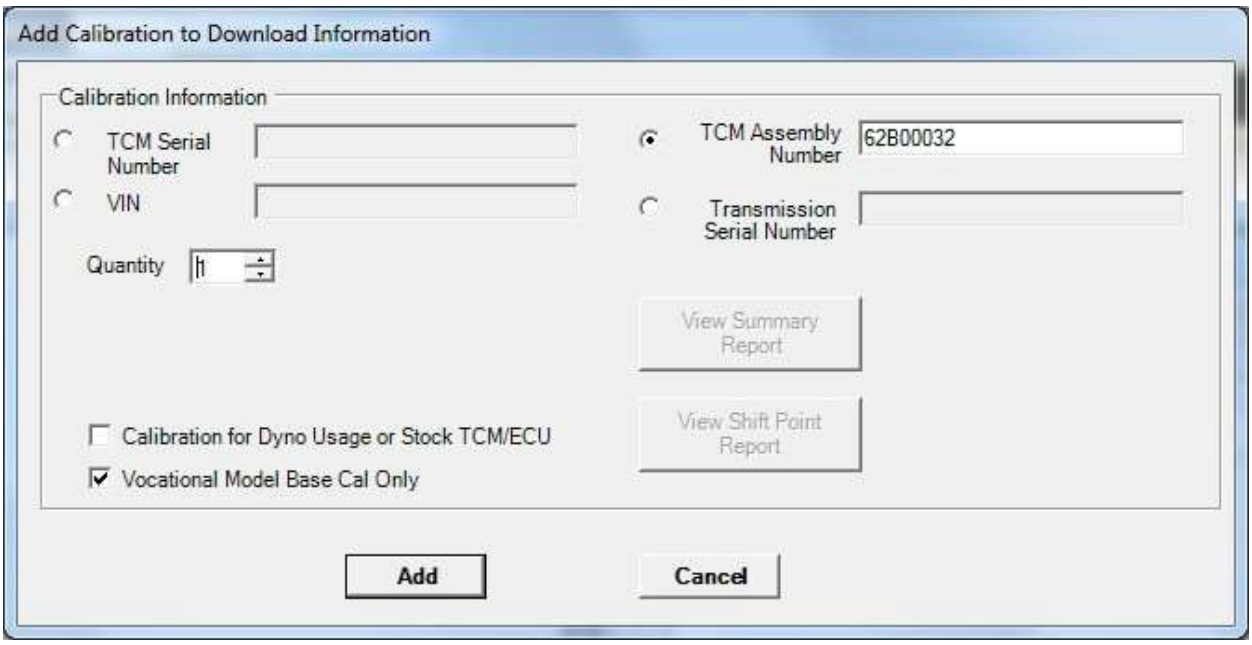
When downloading a 5th/6th Generation calibration package, TCM Reflash assumes a fully calibrated "road ready" configuration is desired. The user may request a calibration package by TCM serial number of the replaced TCM, Road Ready TCM assembly number, VIN or transmission serial



5th/6th Generation Vocational Model Base Cal Only (not a fully functional Road Ready calibration) dialog box

Note:

Select the 'Vocational Model Base Cal Only' checkbox when only loading the vocation model TCM assembly number. The TCM serial number, VIN, and transmission serial number fields are grayed out and not available for use.



3. *5th/6th Generation only*: Do not check "Vocational Model Base Cal Only" if a fully functional Road Ready calibration is required. Vocational Model Base Cal Only will not provide full functionality for vehicle operation. Use the "Vocational Model Base Cal Only" mode when loading only the vocational model calibration package for use at an OEM assembly line with a Vehicle Electronic Programming Station (VEPS).
4. Enter either the CIN (4th Generation only) of the calibration to add or the TCM Assembly Number. Once the CIN or the TCM assembly number is entered, the Summary Report and the Shift Point Report are available for viewing before actually requesting the calibration. If necessary, preview the Summary and Shift Point Reports to confirm the correct calibration has been selected for downloading.

Note: For 5th/6th Generation:

- Summary Reports are available via Allison HUB account.
- Shift Point Reports are available via Reports→Shift Points Report menu item only (see 2.7.4). The TCM must be connected to run 5th/6th Generation Shift Point Reports.

Note:

When adding a calibration in the H 40/50 EP Database, a SID number is used instead of a CIN. In addition, the Hybrid Summary Report is different from other calibrations. This report simply displays the calibration and software level for each device used for the corresponding SID number. Shift Point Reports are **not** available for Hybrid calibrations.

5. Select the quantity or number of copies of the calibration to download; the default is one.
6. *4th Gen and earlier systems only:* Either an Exact Calibration (if available) or the Newest Calibration can be downloaded. Newest Calibration is automatically checked if no action is taken to check Exact Calibration.
7. Click the Calibration for Dyno Usage box if the CIN or TCM Assembly Number is for a transmission dyno or a stock ECU/TCM.
8. *4th Generation systems only*: Click the A59 box if the calibration is being loaded into an A59 TCM.
9. Click the **Add** button—the application adds the specified calibration into the Calibrations to Download from Web Server list.

Note:

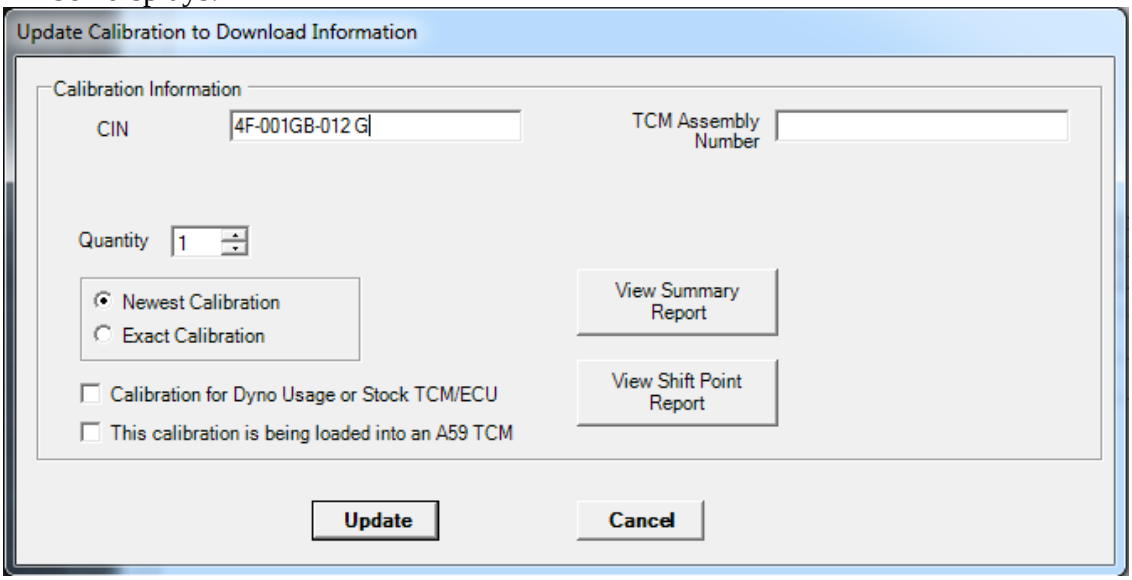
The information specified in the Calibrations to Download from Web Server list can be modified as necessary by using the **Modify** button.

3.2.2 Modifying Calibration Request Information to Download From Web Server

Calibration request information, displayed in the Main Calibration screen's Calibrations to Download from Web Server list, can be changed at any time. The **Modify** button displays the *Update Calibration to Download Information* dialog box. The modify feature allows any of the entered information to be changed and makes the Summary Report and the Shift Point Report available for previewing the calibration.

To modify a displayed calibration:

1. Select or highlight the calibration to modify in the Main Calibration screen's Calibrations to Download from Web Server list.
2. Click the **Modify** button—the *Update Calibrations to Download Information* dialog box displays.



3. Modify the information as required.
4. Click the **Update** button—the application updates the calibration information in the Calibrations to Download from Web Server list.

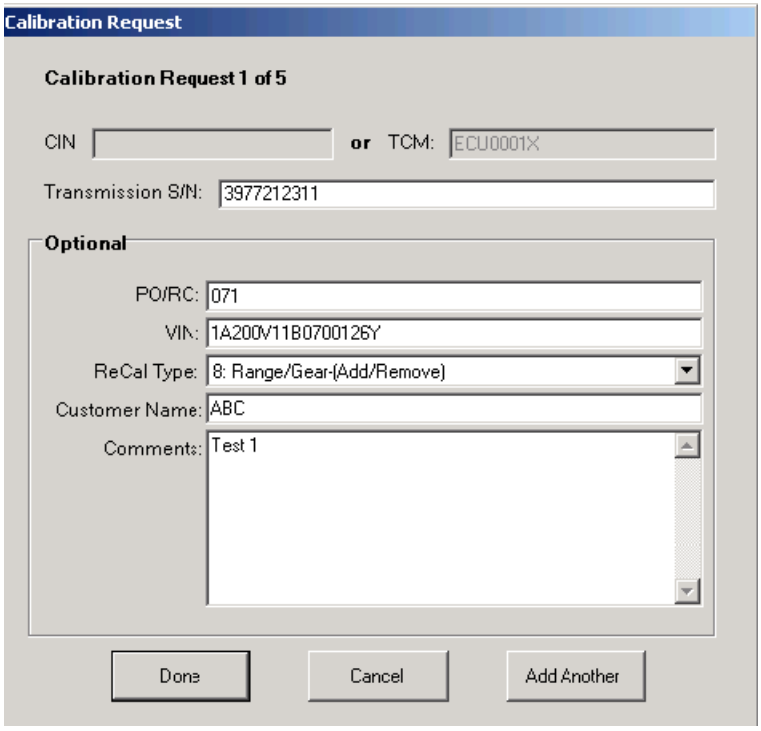
3.2.3 Submitting Calibrations (Distributors/Dealers Only)

When a calibration download request is submitted to the PCCS Web Server, that transmission serial number is verified and validated. Based upon the calibration request information and the transmission serial number, PCCS either approves or disapproves the calibration for download.

Error messages indicating what failed in the process display if:

- An invalid CIN, TCM/ECU Assembly Number, or Transmission S/N is entered.
- The system detects a calibration and transmission serial number mismatch.

1. Click on the row in the Main Calibration screen's Calibrations to Download from Web Server list containing the calibration to be downloaded—the calibration data is highlighted.
2. Click the **Submit** button—the *Calibration Request* dialog box displays (vocational model check only).



- The system loads the CIN or TCM fields.
- The Calibration Request field indicates which set of Transmission Serial Numbers and other Optional fields the user is on. In this case, the user is on set 1 of 5.
- If the total number of requested calibrations has not been reached, the **Add Another** button is activated to allow the user to enter additional Transmission Serial Numbers and Optional fields. Once the request number has been reached, the user must click the **Done** or **Cancel** button.

3. Enter the Transmission S/N. This is the only required field.

> **CAUTION**:
>
> Be careful and precise when entering the transmission serial number, as it will be verified and validated once the request is submitted. With the transmission serial number and the calibration information, PCCSWeb approves or disapproves the download of the request calibration.
>
> If the transmission serial number is not known, (for example, in cases of a stock ECU/TCM), then the user needs to check the dyno box when the CIN or ECU number is added to the *Calibrations to Download from Web Server* screen.

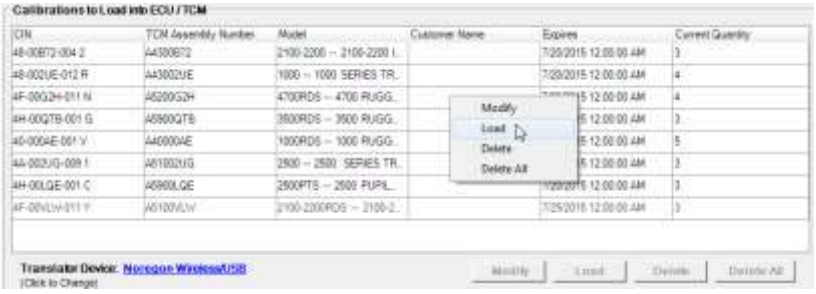
4. If another calibration copy is to be downloaded, click **Add Another**. A transmission serial number is required for each download.
5. If the information for all requested calibrations has been entered, click the **Done** button—TCM Reflash submits the request(s) to PCCS.

The calibrations successfully downloaded from PCCSWeb to the PC are displayed in the Calibrations to Load into ECU/TCM portion of the Main Calibration screen, indicating they are ready to be applied to ECU/TCMs.

3.3 Loading Calibrations into TCM/ECUs

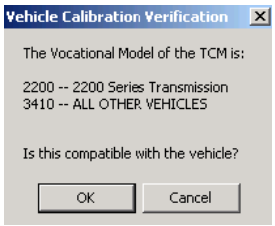
Download the calibration from PCCSWeb/CDS to the PC before applying it to a TCM/ECU. Connect the TCM/ECU to the PC and power it up, with the ignition on (refer to Appendix C for connection diagrams).

NOTE: Context-appropriate functionality (e.g., the **Load** button) is accessible by pressing the right mouse button over the Calibrations to Load grid.

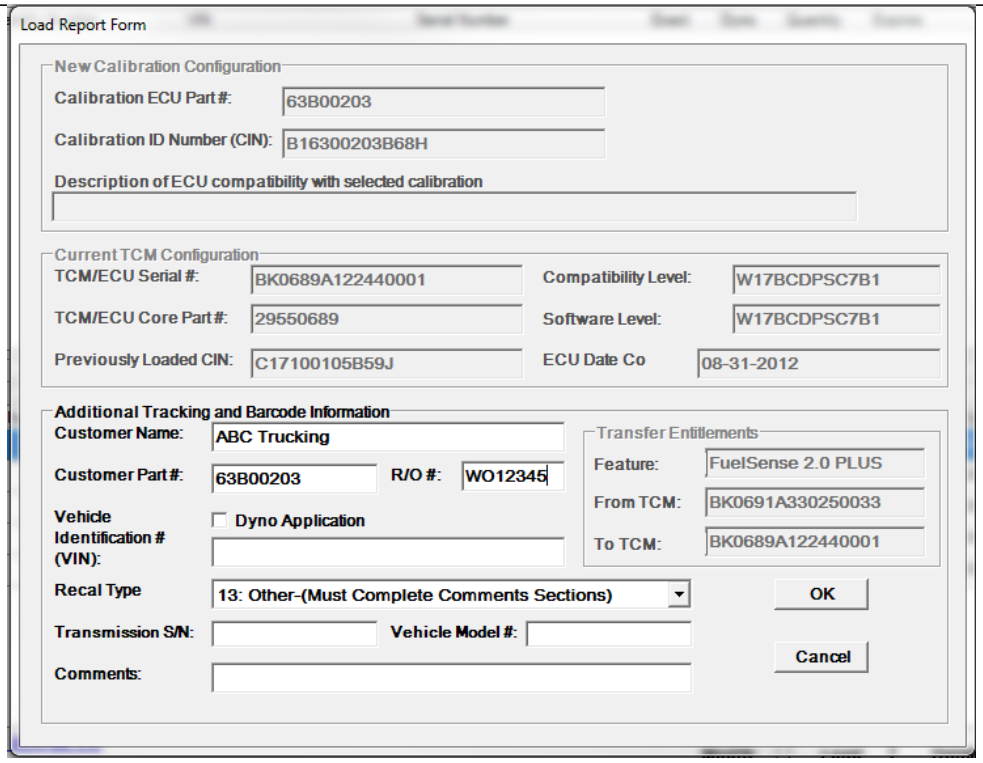


To load a calibration into a TCM/ECU:

1. In the main calibration screen's Calibrations to Load into ECU/TCM section, select the row containing the calibration to be loaded to the TCM—the calibration data is highlighted.
2. Click the **Load** button—the *Vehicle Calibration Verification* screen displays.



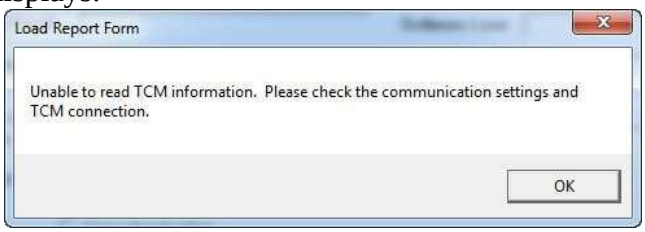
3. Confirm the vocational model of the vehicle into which the TCM to reflash will be installed. If compatible, click **OK**. Otherwise, click **Cancel** and verify vehicle and/or calibration compatibility. The *Load Report Form* screen displays and the application reads the Current TCM Configuration from the connected TCM/ECU.



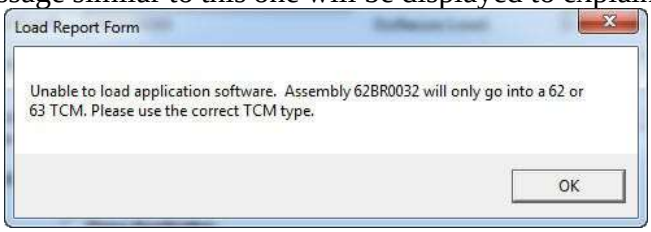
Note:

While the application is reading the information from the TCM/ECU, the OK button is grayed out.

- If the application is unable to establish communication with the TCM/ECU, a message box displays.

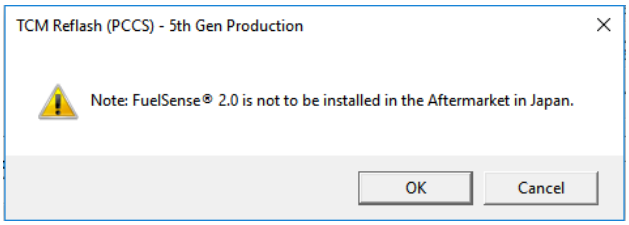


- If an incorrect level of calibration is identified to be loaded into a TCM, a dialog box with a message similar to this one will be displayed to explain the error.



- If the user has selected 5th/6th generation calibration with an enabled FuelSense® 2.0 billable feature, TCM Reflash performs additional logic, as follows.

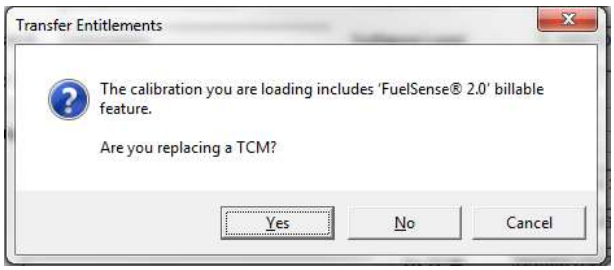
  User must agree to the following FuelSense® 2.0 disclaimer:



  a. **OK** → continue with TCM load

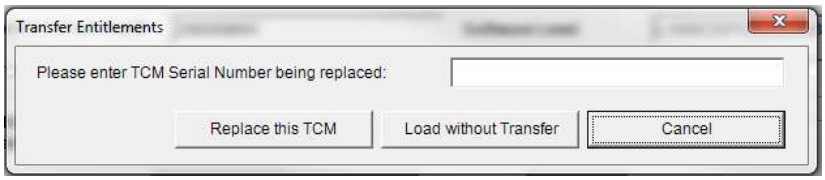
  b. **Cancel** → abandon TCM load

  If the current TCM serial number is not the same as the calibration TCM serial number, the following message is displayed:



  a. **Yes** →

  - Pick 'Yes' if the TCM is being replaced. In this case, the billable feature can be transferred to the new TCM without incurring an additional charge.
  - If the calibration is not associated with a TCM serial number (i.e. it was downloaded by Assembly Number), the user is prompted for a TCM serial number. Please ensure that the TCM Serial Number is correctly entered:

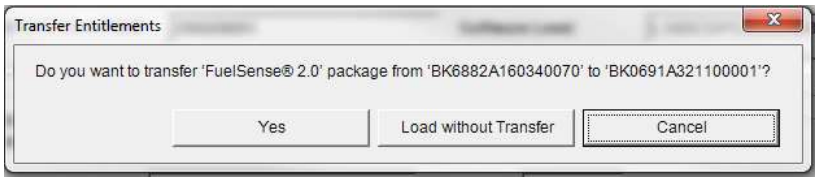


    - **Replace this TCM** → user enters the from TCM serial number. To successfully transfer the entitlement and not incur a billing event, the original TCM Serial Number must be entered.
    - **Load without Transfer** → The service location associated with the user's PCCS login will be invoiced for the feature being loaded onto an additional TCM.
    - **Cancel** → abandon TCM load

  b. **No** → continue TCM Load. The location associated with the user's PCCS login will be invoiced for the feature.

  c. **Cancel** → abandon TCM load

Before proceeding with transferring a billable feature, a final confirmation message is displayed:



a. **Yes** → transfer entitlement record is flagged, continue TCM Load

b. **Load without Transfer** → continue TCM Load. The Service Location will be invoiced.

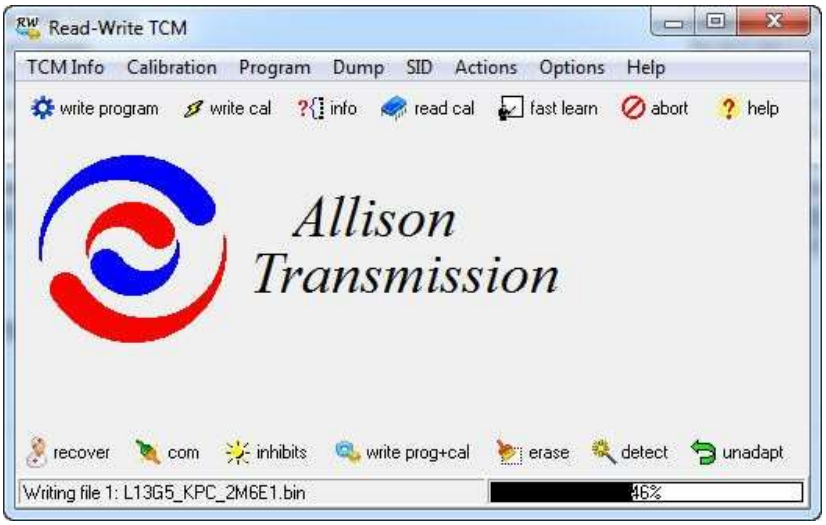
c. **Cancel** → abandon TCM load

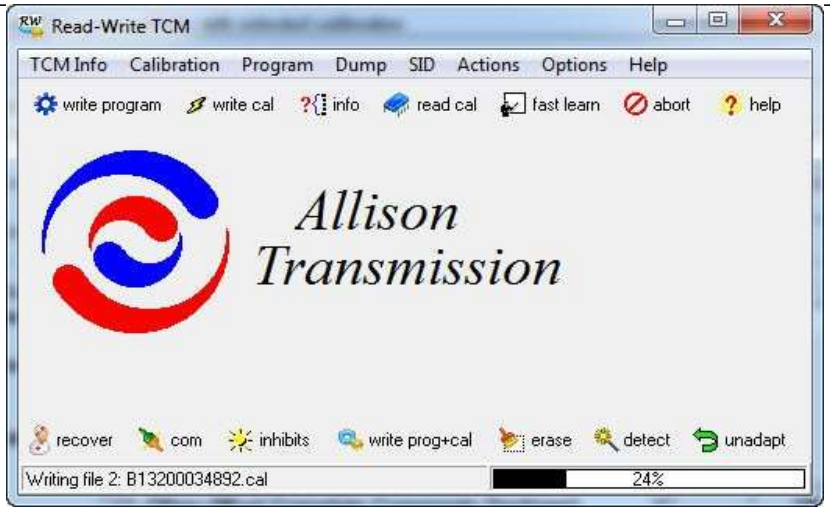
If a transfer entitlement record has been flagged, the **Transfer Entitlements** information is displayed in the *Load Report Form*.

- The New Calibration Configuration and the Current TCM Configuration fields of the *Load Report Form* are filled in by the system. Only the Additional Tracking and Barcode Information fields are to be filled in by the user.

> **Note:**
> The user (if a Distributor or Dealer) is required to enter in the RO#, VIN, Transmission S/N, and Comments.

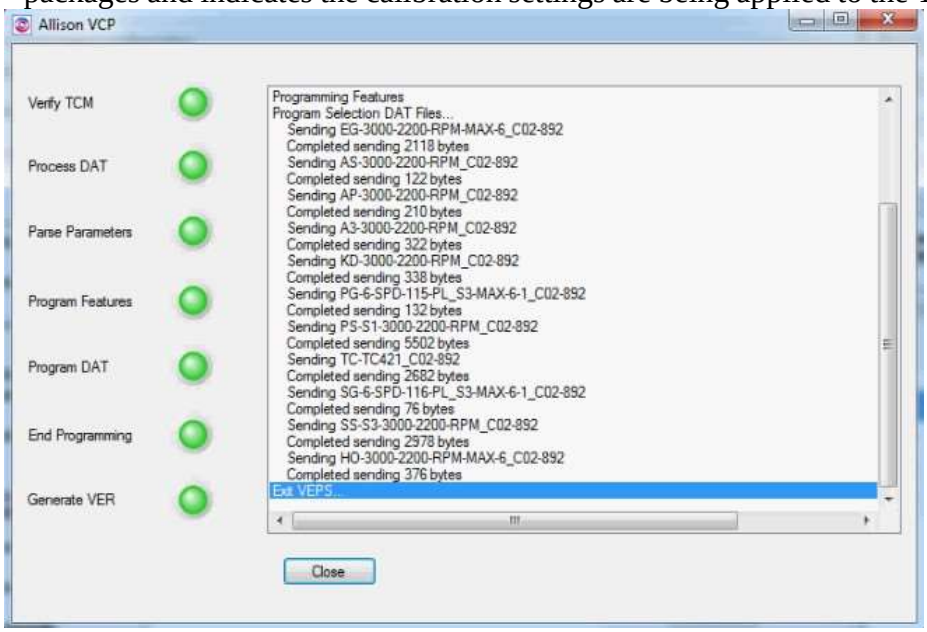
4. Click the **OK** button to apply the calibration to the TCM—the *Read/Write TCM* window displays. A message displays if one or more of the required fields have not been filled in, or if a field contains invalid data.





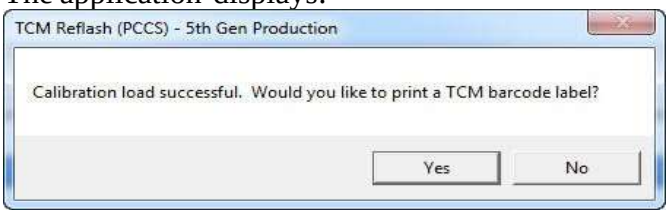
- Depending upon the translator device, PC configuration, and data link load, the Read/Write process may take up to 15 minutes.
- The following screens will appear upon completion of the Write process.

5th/6th Generation only: The following screens appear when loading fully calibrated road ready packages and indicates the calibration settings are being applied to the TCM.



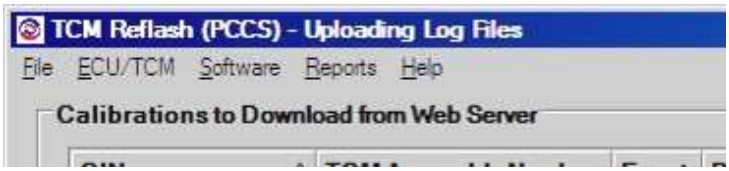


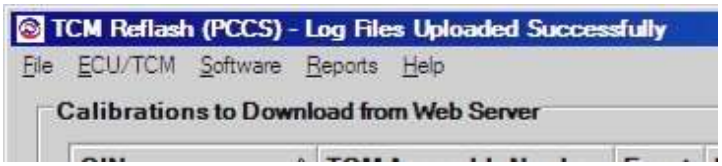
- Once the TCM/ECU has been successfully flashed/reflashed,
  - The application saves a calibration log locally (load track report).
  - The application saves a transfer entitlement record locally if necessary.
  - The application displays:



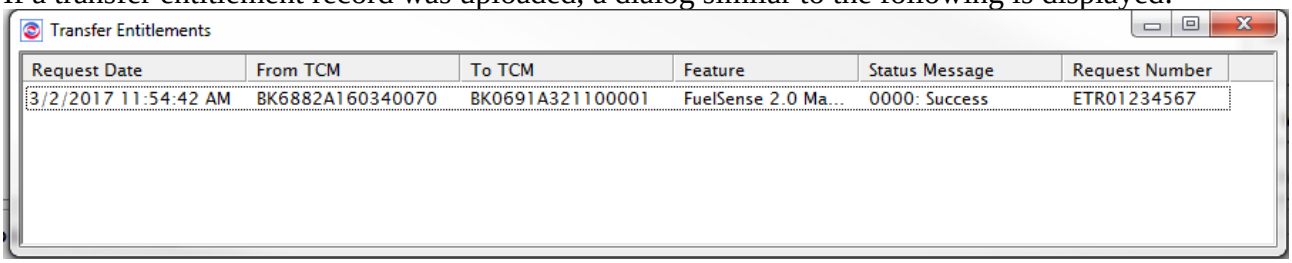
5. Click **Yes** to print the barcode label—the print label screen displays (refer to section 3.7). If not printing a barcode label, click **No**.

After printing the label, or if a barcode label is not printed, the application uploads any pending calibration logs and transfer entitlement records to the PCCSWeb/CDS server. The upload progress is displayed in the title bar at the top of the main calibration window.





If a transfer entitlement record was uploaded, a dialog similar to the following is displayed.



Note:

There is a Request Number associated with a success status. Please record the Request Number displayed for your records.

Note:

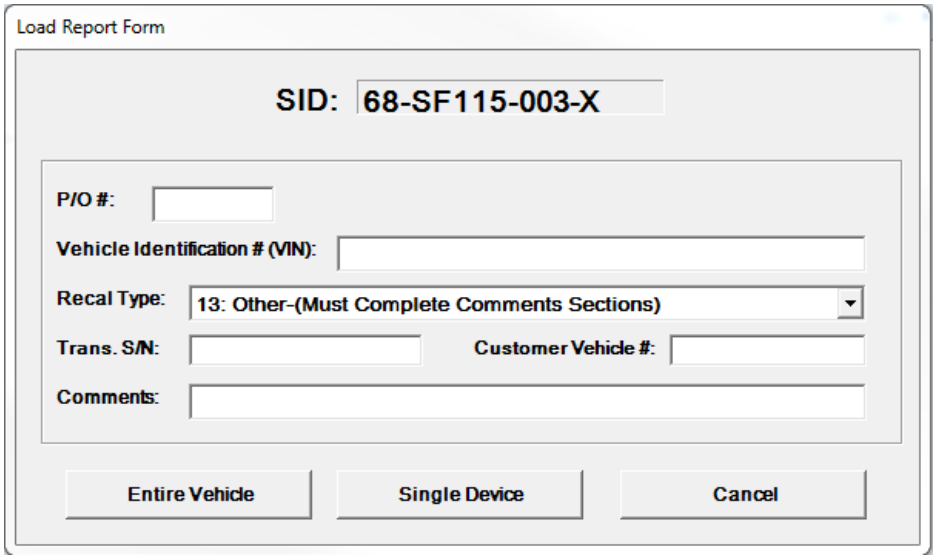
If the status message has a failure code, please address any failures in a timely manner. Failure to do so will result in invoices being sent to the Service Location ID associated with the PCCS Login. Corrections can be made from the File menu item 'Transfer FuelSense® 2.0 Billable Package'.

3.3.1 Loading Calibrations into an H 40/50 EP System

When loading calibrations into an Allison Hybrid System, certain steps and windows are different than the previously discussed load process (section 3.3).

To load a calibration into a Hybrid System:

1. In the Main Calibration screen's Calibrations to Load into ECU/TCM section, select the row containing the calibration to be loaded to the TCM—the calibration data is highlighted.
2. Click the **Load** button. The *Load Report Form* window will be displayed.

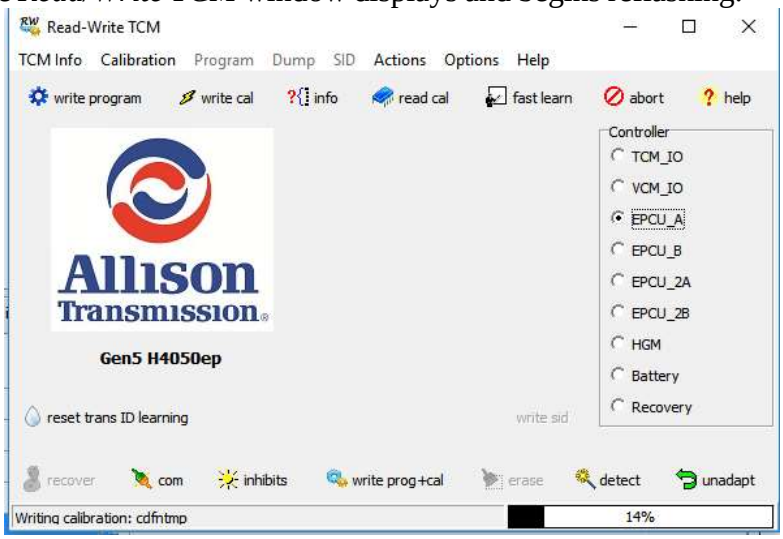


Note:
As with other Load Report Forms, the user (if a distributor or dealer) is required to enter in the RO#, VIN, Transmission S/N, and Comment. Also, for Hybrid System, the user is required to enter Customer Vehicle #.

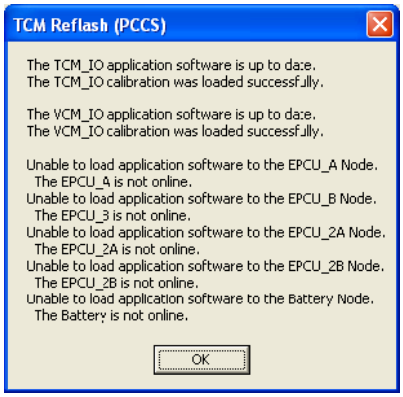
3. The user has the option to either load the entire vehicle by clicking the **Entire Vehicle** button, or load a single device by clicking the **Single Device** button.

Note:
It is recommended to load the entire vehicle when possible.

- If Entire Vehicle is selected:
  - The *Read/Write TCM* window displays and begins reflashing.



  - Once each component has been attempted to reflash, the application displays the following dialog box, which describes the results of the load in each controller:

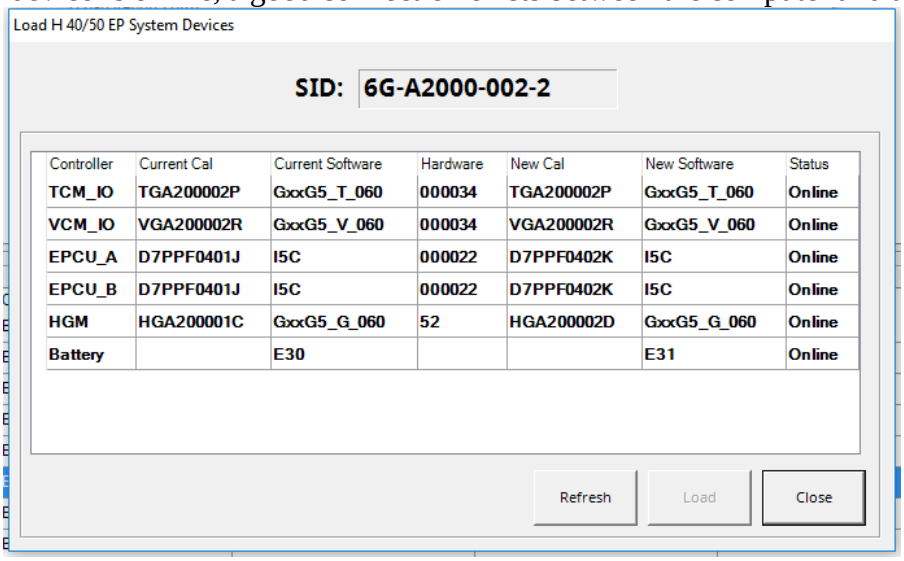


> **Note:**
>
> If the SID requires an EnerDel battery, TCM Reflash does not flash the battery; it shall report "EnerDel battery detected; no software installed."

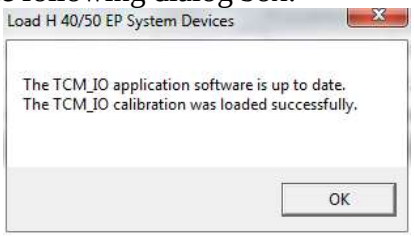
  - Click **OK** and the application will ask if you would like to print barcode labels. Click **Yes** to print the barcode label—the print label screen displays (refer to section 3.7). If not printing a barcode label, click **No**.



- If Single Device is selected:
  - The *Load H 40/50 EP System Devices* dialog box will appear. If the status of a device is online, a good connection exists between the computer and the device.



  - Select the device to be loaded and click **Load**. The *Read/Write TCM* window displays and begins reflashing.
  - Once each component has been attempted to reflash, the application displays the following dialog box:



  - Click **OK** and the application will ask if you would like to print a barcode label. Click **Yes** to print the barcode label—the print label screen displays (refer to section 3.7). If not printing a barcode label, click **No**.

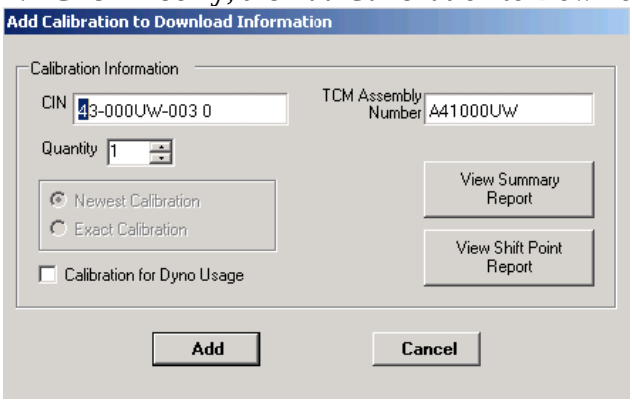
- After printing the label, or if a barcode label is not printed, the application uploads any pending calibration logs to the PCCSWeb/CDS server. The upload progress is displayed in the title bar at the top of the main calibration window.

3.3.2 Requesting Copies of a Calibration Already Downloaded

TCM Reflash allows users to obtain or request additional copies of a calibration that has already been downloaded to the PC and is ready to be applied to ECU/TCMs.

To request additional copies of a calibration from the PCCSWeb/CDS server:

1. Select the calibration to be requested from the Calibrations to Load into ECU/TCM list.
2. Click **Modify**, the *Add Calibration to Download Information* dialog box displays.



The CIN and TCM Assembly Number are system populated.

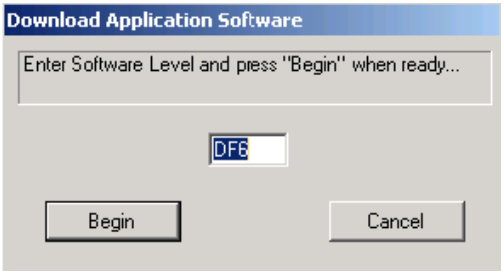
3. Enter the new information such as Quantity, Calibration for Dyno Usage or, when available, the Newest Calibration or Exact Calibration selection.
4. Click the **Add** button, the entry is added to the Calibrations to Download from Web Server list.
5. Refer to section 3.2.3 for submitting calibration verification requests.

3.4 Downloading TCM/ECU Application Software

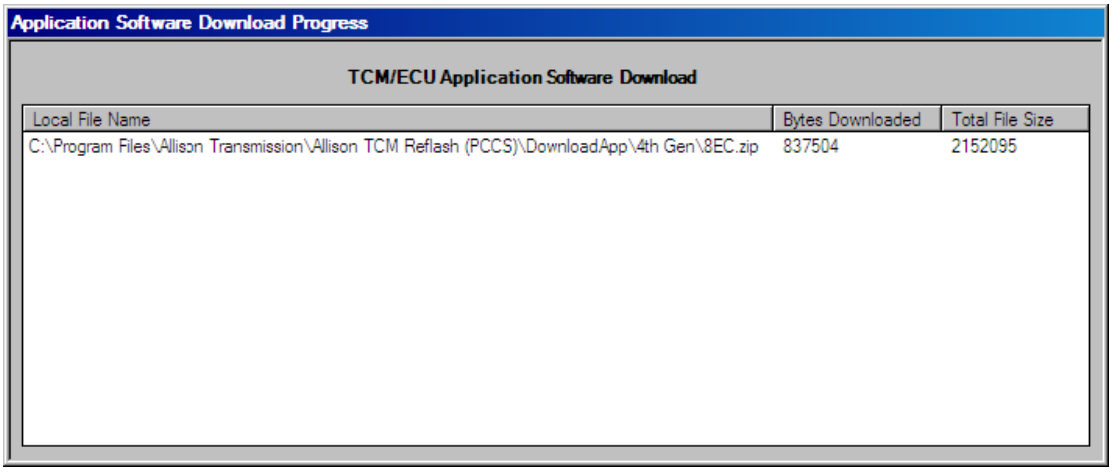
TCM application software is normally downloaded with the calibration request. However, if the application software failed to download during that process, or it is simply required for a special circumstance, it can be downloaded separately. This item is not available for 5th/6th Generation.

To download the application software:

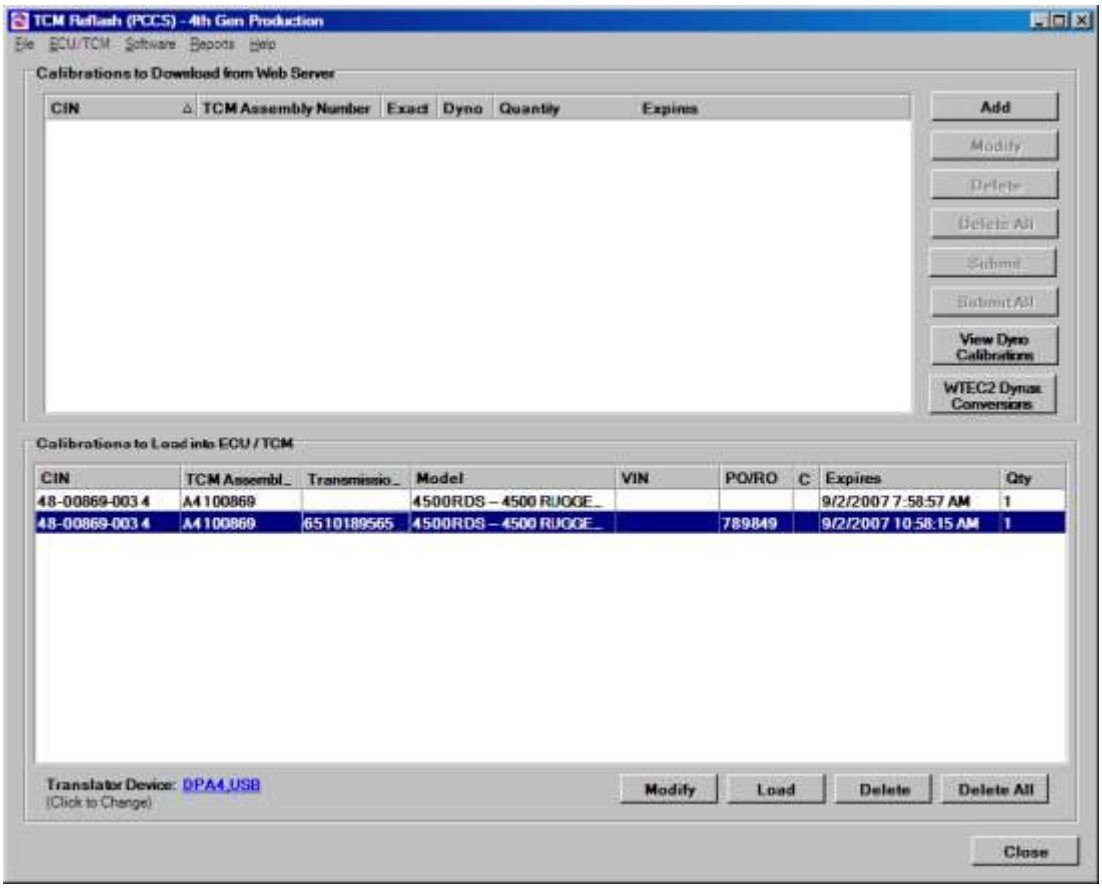
1. Select Download From Server from the Software drop-down menu, the *Download Application Software* dialog box displays.



2. Enter the appropriate software level to download and click **Begin**, the *Application Software Download Progress* window displays.



3. When the download is complete, the Main Calibration screen displays.



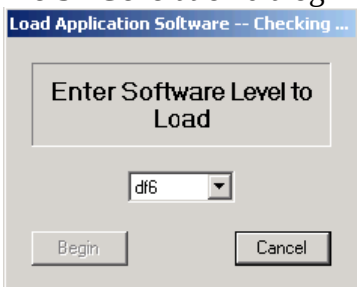
3.5 Loading Application Software into a TCM/ECU

Before attempting to load the application software into a TCM/ECU, the TCM/ECU must be connected to the PC and powered up, with the vehicle ignition on. If the TCM/ECU is not connected and/or powered up, the application displays an error message stating that condition.

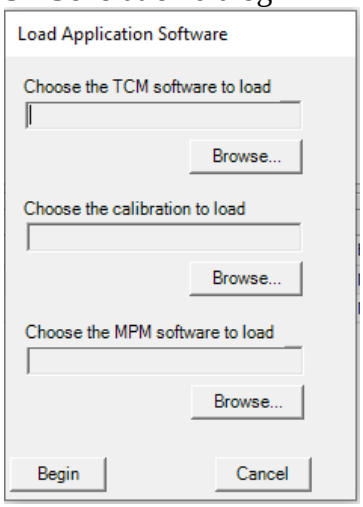
To apply application software to a TCM:

1. Select Apply to TCM from the Software drop-down menu. The *Load Application Software* dialog box displays.

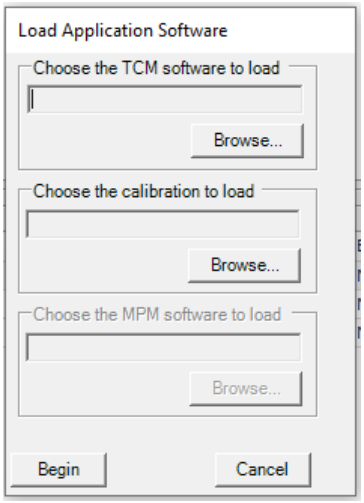
Pre-5th Generation dialog



5th Generation dialog



6th Generation dialog



2. Select the application software to be applied to the TCM from the drop-down menu. If 5th Generation, select the calibration and MPM software to be applied to the TCM; if 6th Generation, select the calibration to be applied to the TCM.
3. Click the **Begin** button.

3.6 Deleting Calibrations from TCM Reflash

Calibrations can be deleted individually, or all that are displayed.

Use the following procedure to delete an individual calibration from any of the TCM Reflash sections:

1. Select the row containing the calibration to be deleted. The selected row is highlighted.
2. Click the **Delete** button.

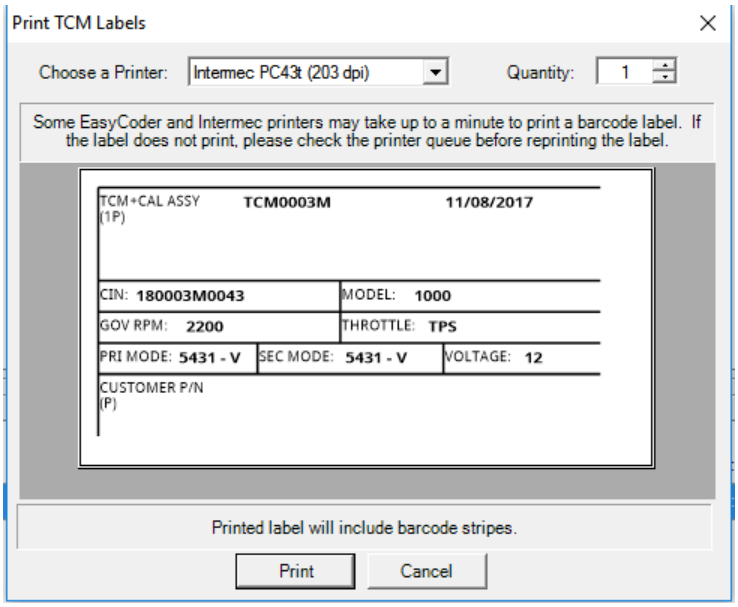
Use the following procedure to delete all calibrations from any of the TCM Reflash sections:

1. Click the **Delete All** button. All displayed calibrations are deleted.

3.7 Printing TCM/ECU Labels

Attach a label containing calibration-specific data to a TCM/ECU after a Reflash event. TCM Reflash provides a means of printing the barcode labels on an Intermec EasyCoder PC41 printer, EasyCoder 3400, or EasyCoder 3400e. The driver for the printer must already be installed on the PC.

The user is presented with the option of printing a TCM/ECU label after successfully loading a calibration into a TCM/ECU. If the user elects to print the label, the following window displays:

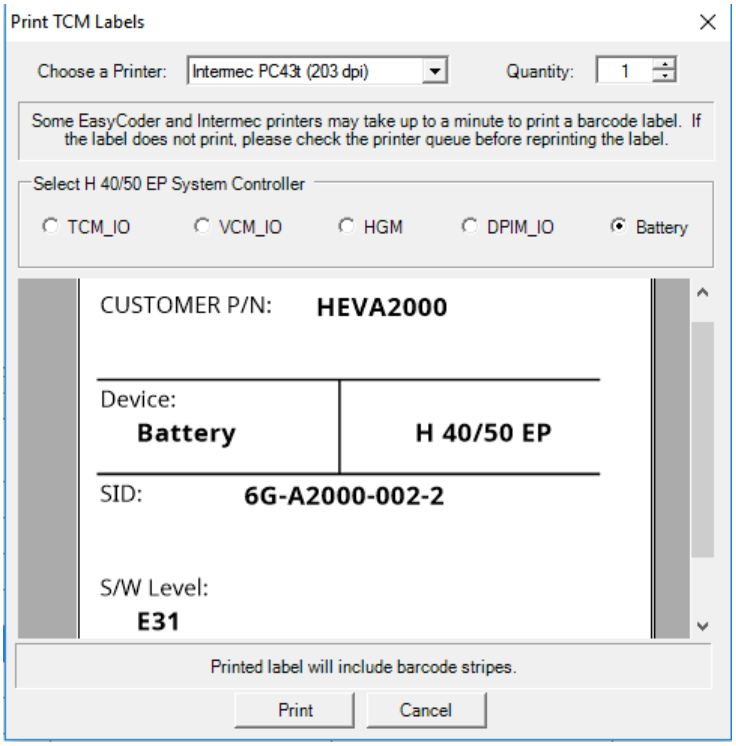


The printer must already be connected to the PC and powered up. Click the **Print** button to start the print job.

> **Note:**
> The serial communication port (COM1, COM2) is designated during Application Setup.

A user can also print a barcode label for any of the calibrations listed in the Calibrations to Load into TCM/ECU list. To print a barcode label for a listed calibration:

1. Select a calibration from the Calibration to Load into TCM/ECU section of the Main Calibration screen.
2. Display the Reports drop-down menu.
3. Select Print TCM Labels for Calibrations to Load. The *Print TCM Labels* dialog box displays.



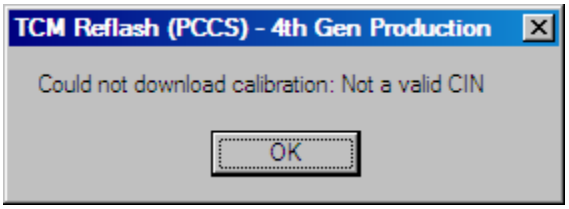
4. Select a printer from the Choose a Printer drop-down menu, or use the default printer.
5. Click the **Print** button. The print job is sent to the printer.

4 Basic Troubleshooting

When trying to download and load calibrations using TCM Reflash, the user may encounter problems. The following are recommended steps for troubleshooting the issue. Once the problem has been resolved, the remaining steps do not need to be performed.

4.1 Invalid CIN Message after Submitting

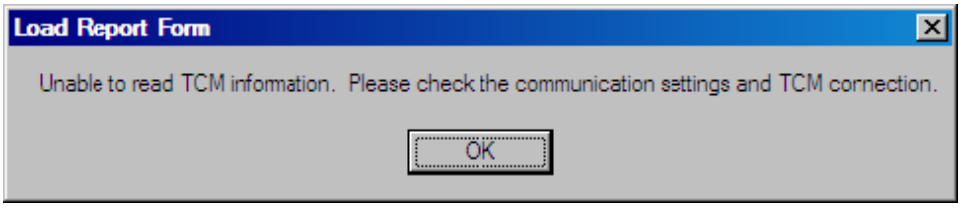
If an invalid CIN of TCM assembly message has been entered, the following message is displayed:



- Confirm correct CIN or TCM assembly message was added to Calibrations to Download from Web Server list.
- Make sure no **I**'s or **O**'s are used; only ones and zeros are possible valid entries.

4.2 Unable to Communicate With TCM/ECU

The following dialog box appears if TCM Reflash is unable to connect to the TCM/ECU:



- Confirm the vehicle is disconnected from Allison DOC®.
- Confirm all cables and devices are properly connected.
- Confirm the correct translator device is selected in Application Setup.
- Confirm the bolt on the T-Harness for Allison 4th / 5th / 6th Generation TCMs is tight.
- Check that the adapter drivers are installed. Contact your adapter manufacturer for assistance.

Note:

For Softing CAN devices (PCI-AC2. CANcard2, CANusb), the legacy CAN Layer 2 wrapper DLLs are installed in the TCM Reflash folder by default. If you are having trouble connecting, then you should replace the following files with the versions from the Softing ***"CAN_V4.0x_wrapper"*** folder:

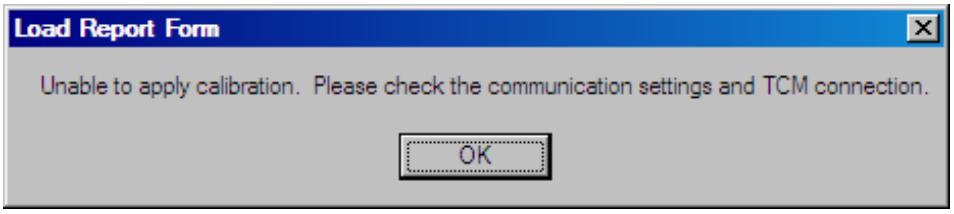
Canapci.dll

Cancard.dll

CanUSB.dll

4.3 Read/Write Program Disconnects While Loading the Calibration

A disconnection is indicated by the following message after the Read/Write program unexpectedly stops running:



- Confirm cables and devices are properly connected.
- Uncheck Fast Read and Fast Write in the Application Setup if they are currently checked.

4.4 Intermec Printer is Not Working on PC

- Download Intermec Setup Guide from Allison Extranet: www.allisontransmission.com | Service | Electronic Tools | Allison TCM Reflash

5 Appendix A—Calibration Request Form

1000, 2000, 3000, 4000 RE-CALIBRATION REQUEST FORM
Note: All Fields Must Be Complete To Process

Return to Facsimile 317-242-2073

DATE OF REQUEST: _____ R/O-P/O NUMBER: _____

CUSTOMER NAME: _____

VEHICLE MODEL: _____

VIN: _____

TRANS S/N: _____ TRANS MODEL NAME: _____

ORIGINAL CIN: _____ TCM/ECU S/N: _____

DESIRED CHANGE *(Please Be Specific)*:

_____

_____

_____

_____

NEW CIN *(If known)*: _____ DATE OF RE-CAL: _____

REPROGRAMMING TO BE COMPLETED BY:

LOAD STATION ID: _____

PERSON'S NAME: _____ PHONE # _____

FOR ALLISON TRANSMISSION USE ONLY

Revision E

6 Appendix B—TCM Reflash Required Hardware

TCM Reflash has only been tested and validated on PCs with the following configurations:

- Microsoft® Windows 7® or Windows 10®.
- 600 MB free hard drive space required to install the program (after software installation, the operating system requires sufficient free hard disk space to run the program).
- CPU: 2.0 GHz or faster.
- RAM: 4 GB or greater.
- Internet connection capability (Internet Explorer® 6 or greater) (**NOTE**: A broadband internet connection is recommended for receiving updates and file downloads).
- One available USB port.
- A serial port is required when using some older model Intermec printers.
- **Full administrative privileges are required to install and update Allison TCM Reflash. User Account Control (UAC) should also be disabled.**

6.1 Intermec Setup

For Allison TCM/ECU label printing, one of the following Intermec printers must be used:

EasyCoder 7421……...Out of Production
EasyCoder PC41……..Replacement for EasyCoder 7421
EasyCoder PC43t ……usb-connected Printer

Intermec 3400/B0010000, PM4i, or 3400e Serial Printer with non-volatile RAM, thermal transfer adapter, null modem cable, and image RAM expansion (for barcode labels).

Intermec 3400……..…....….Out of Production
EasyCoder 3400 or EasyCoder 3400e…….....Out of Production
PM4i…….Replacement for Intermec 3400 and EasyCoder 3400/3400e

For the most recent product information on these printers, go to www.intermec.com/

These printers and TCM/ECU labels are available through:

Intermec Media Products
9290 Le Saint Dr
Fairfield, OH 45014

513-874-5882

CDW www.cdw.com
NextDayPC www.nextdaypc.com

All printers require installation of InterDriver™.

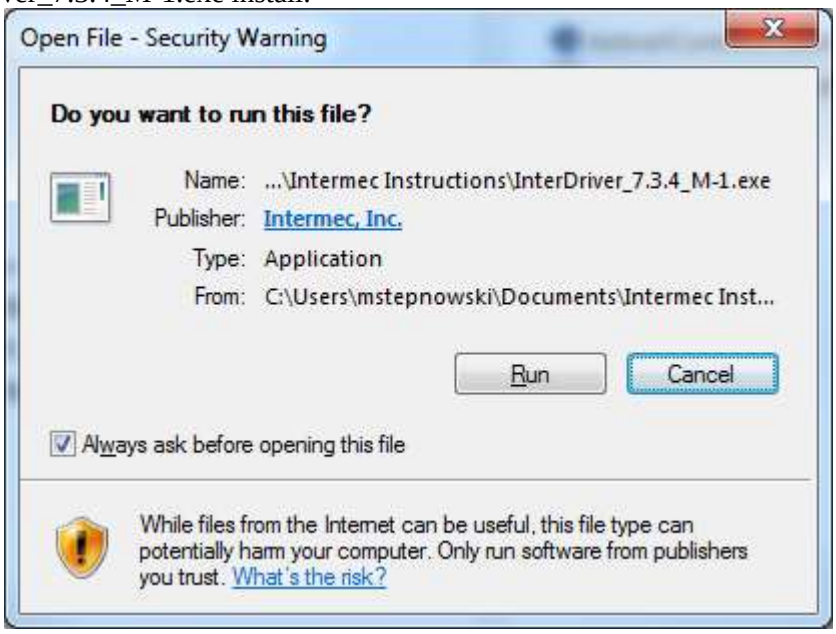
The examples in the following pages use version 7.3.4 of Intermec's InterDriver™ and are for the Intermec PC43t.

Later drivers may be available. Installs are available from www.intermec.com | Support | Downloads.

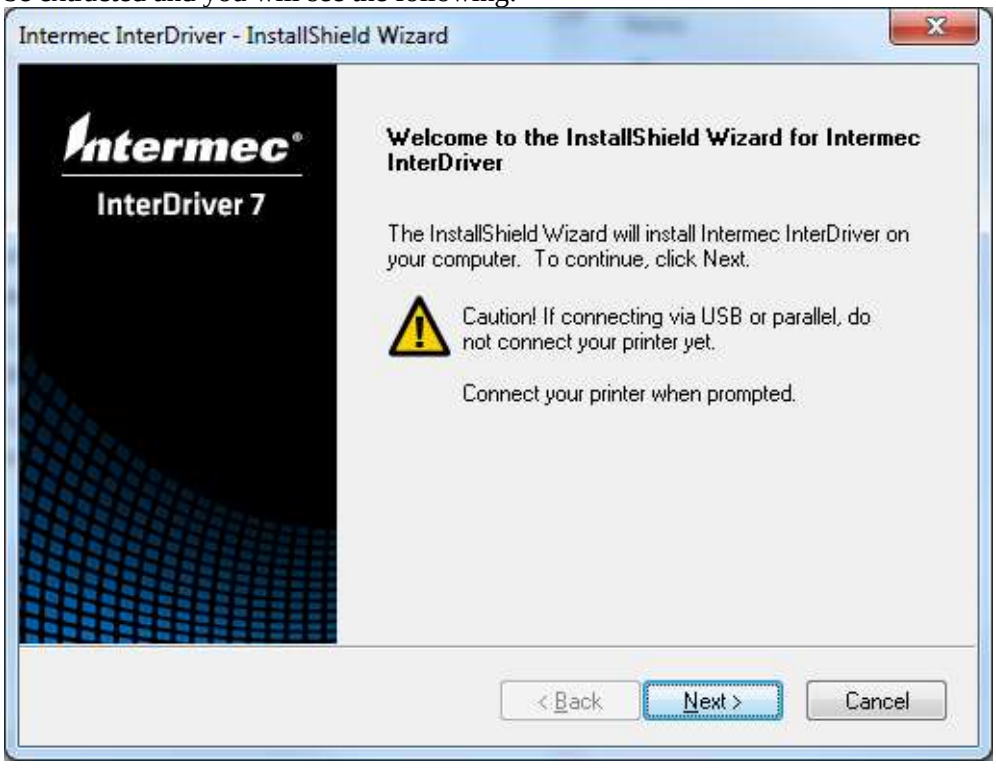
6.2 Installing the InterDriver™ Software

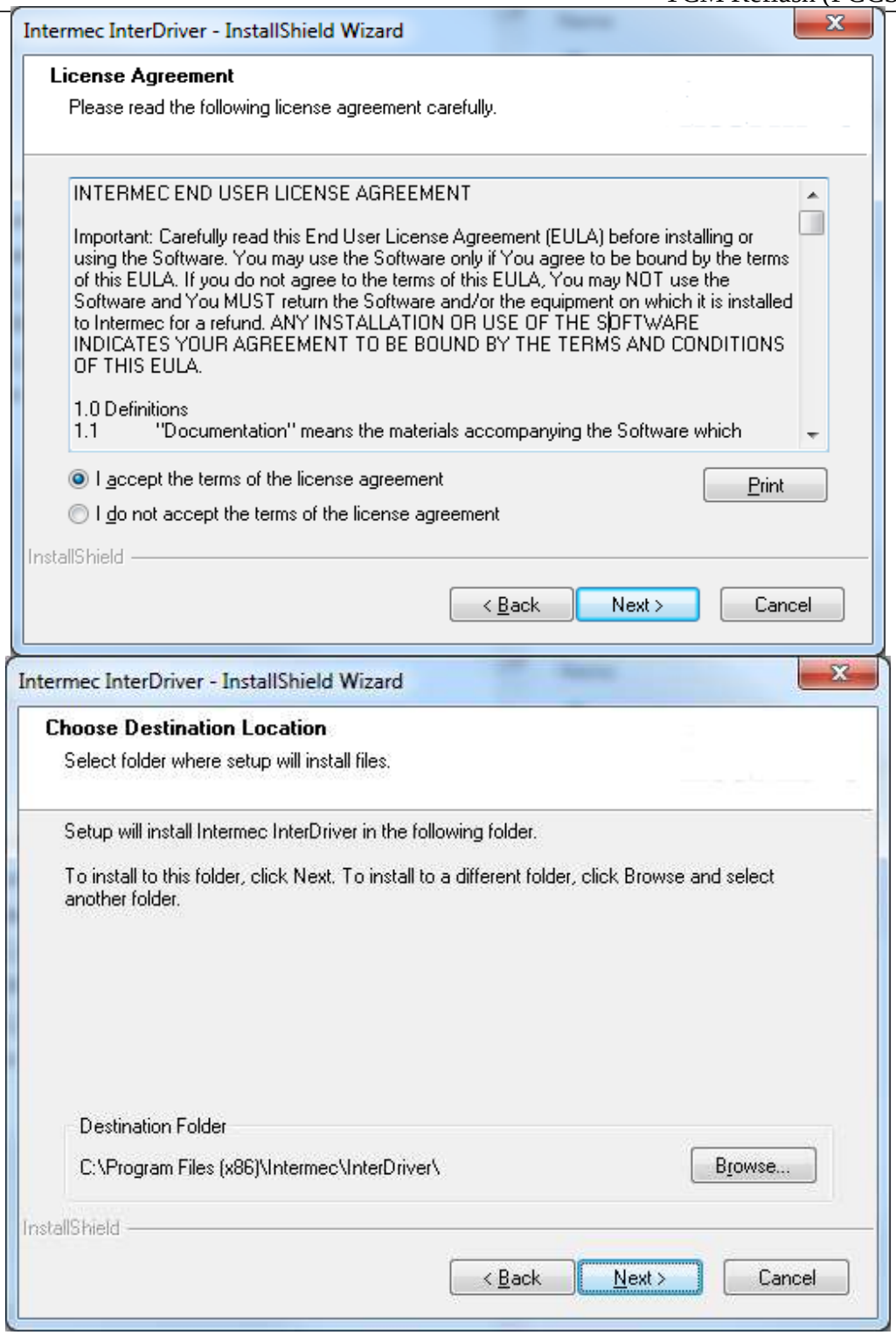
Note: Screen Pictures will vary depending upon Operating System.
Windows 10® users should turn off Pop-Up blockers.

1. Do not connect the label printer to the pc until instructed.
2. Download the following software and save to your pc: Intermec's InterDriver_7_3_4_M-1.exe. Do not run from a network drive.
3. Run the InterDriver_7.3.4_M-1.exe install.

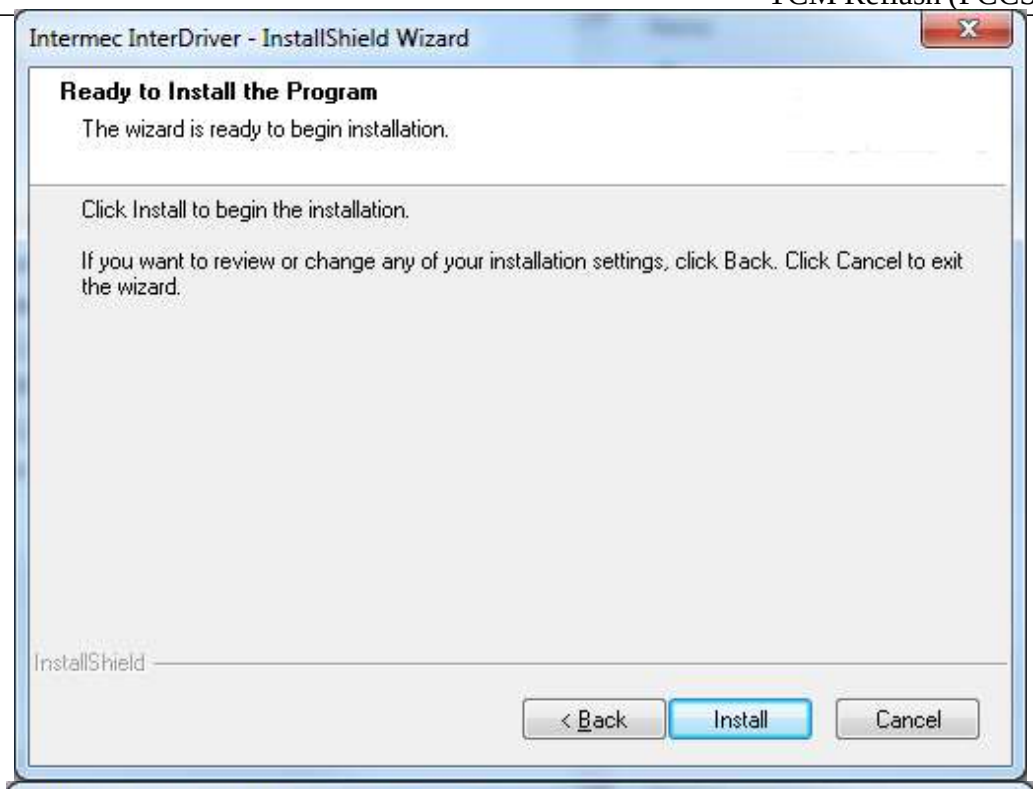


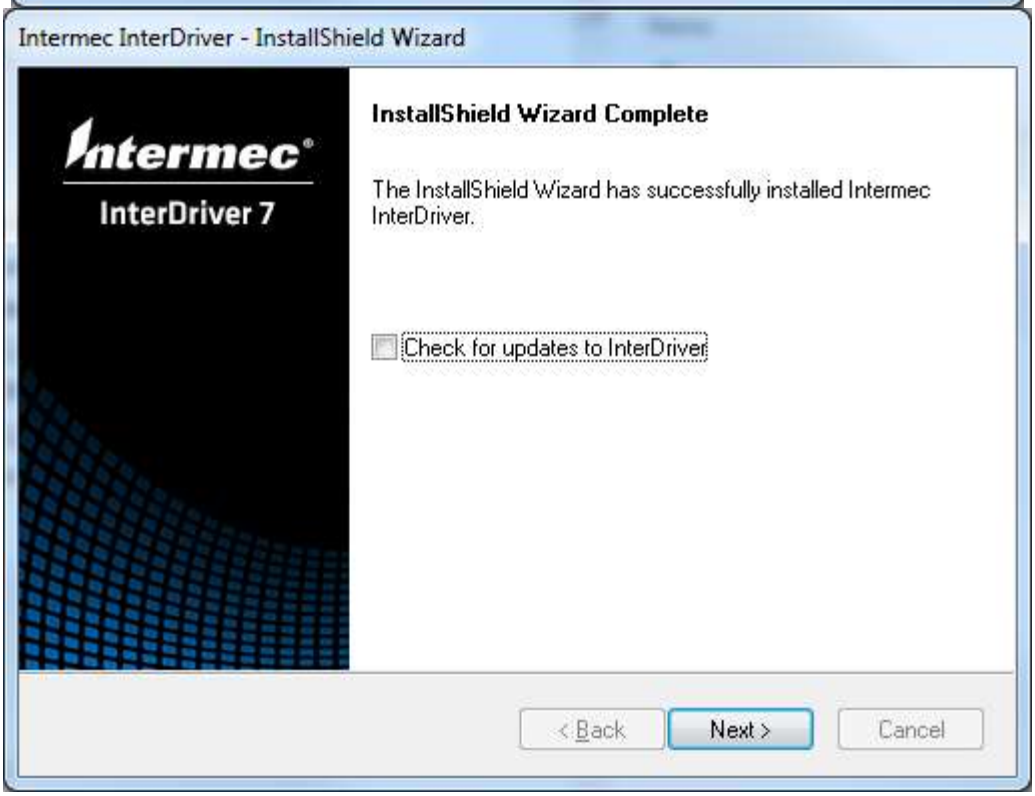
4. Files will be extracted and you will see the following:





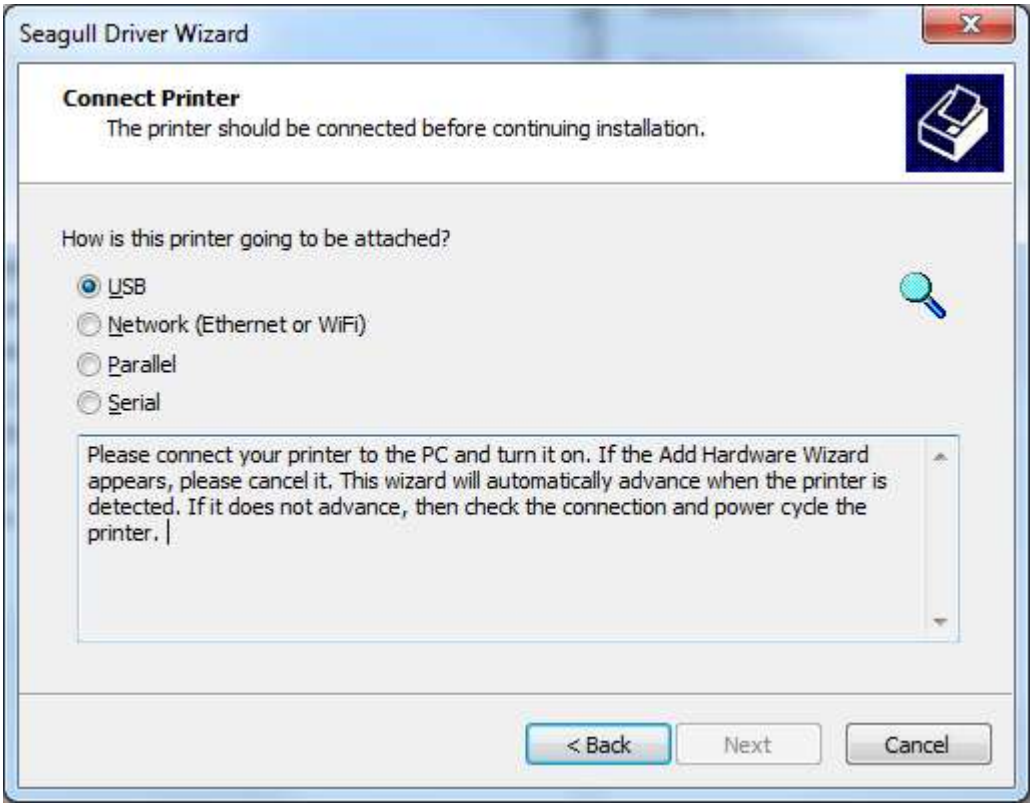
5. Note the 'Destination Folder' location (will vary depending upon your operating system). This will be used in step 11.
6. More screen captures from the install program:


Intermec InterDriver - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

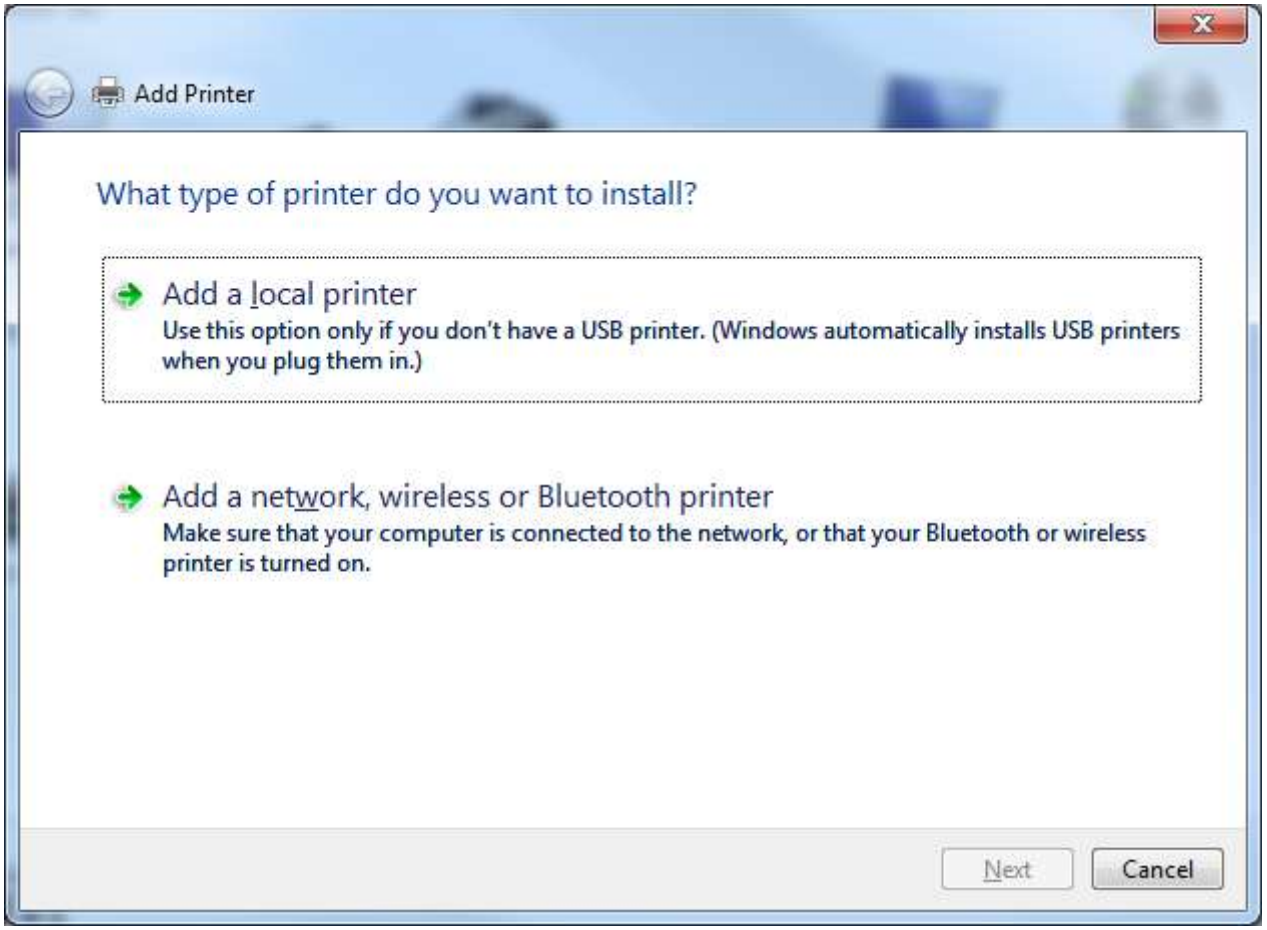

Intermec InterDriver - InstallShield Wizard
Intermec
InterDriver 7
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Intermec InterDriver.
Check for updates to InterDriver
< Back
Next >
Cancel



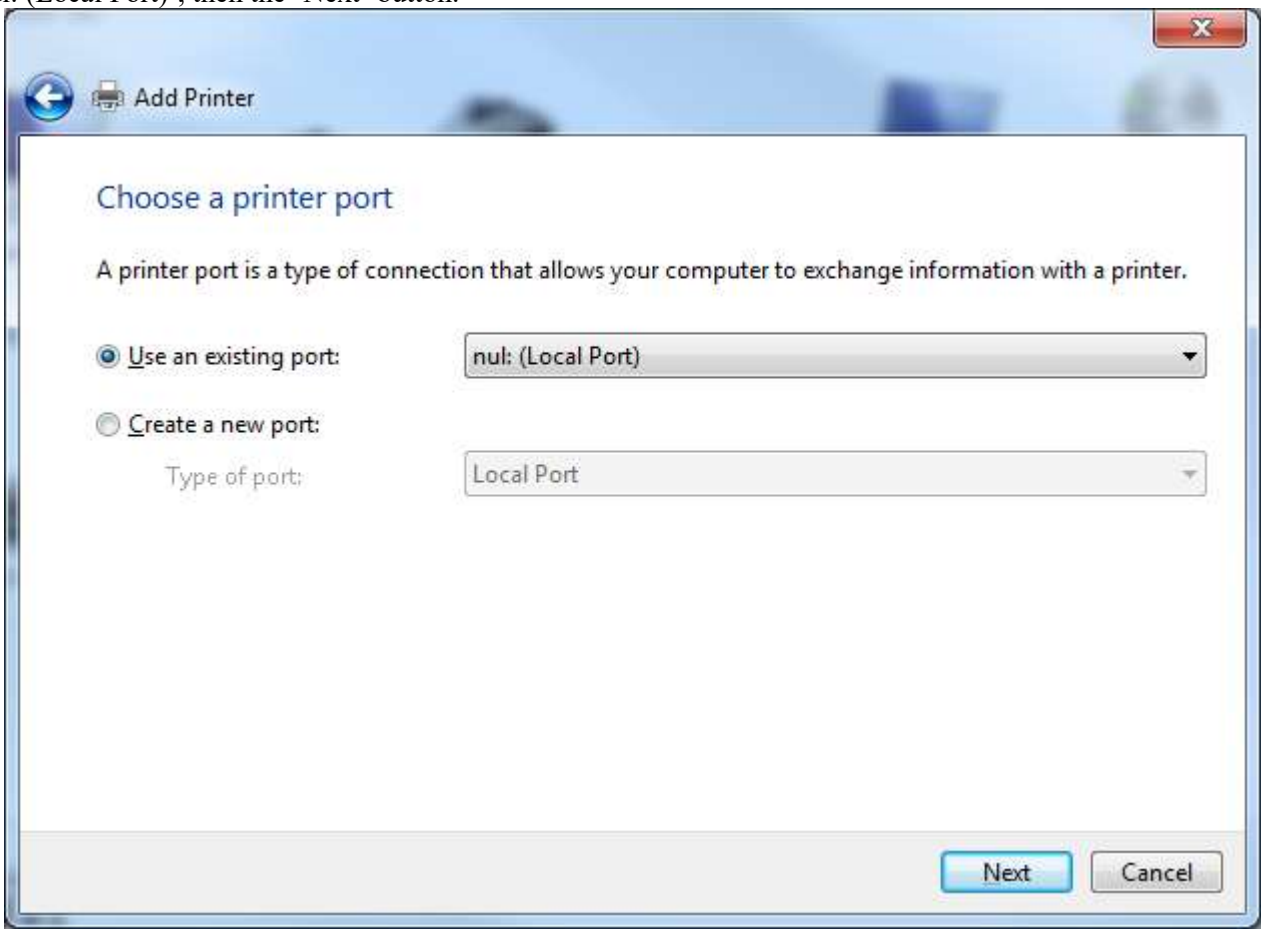
7. When you see the following screen, stop! Do not connect your printer! Select 'Cancel' at this point:



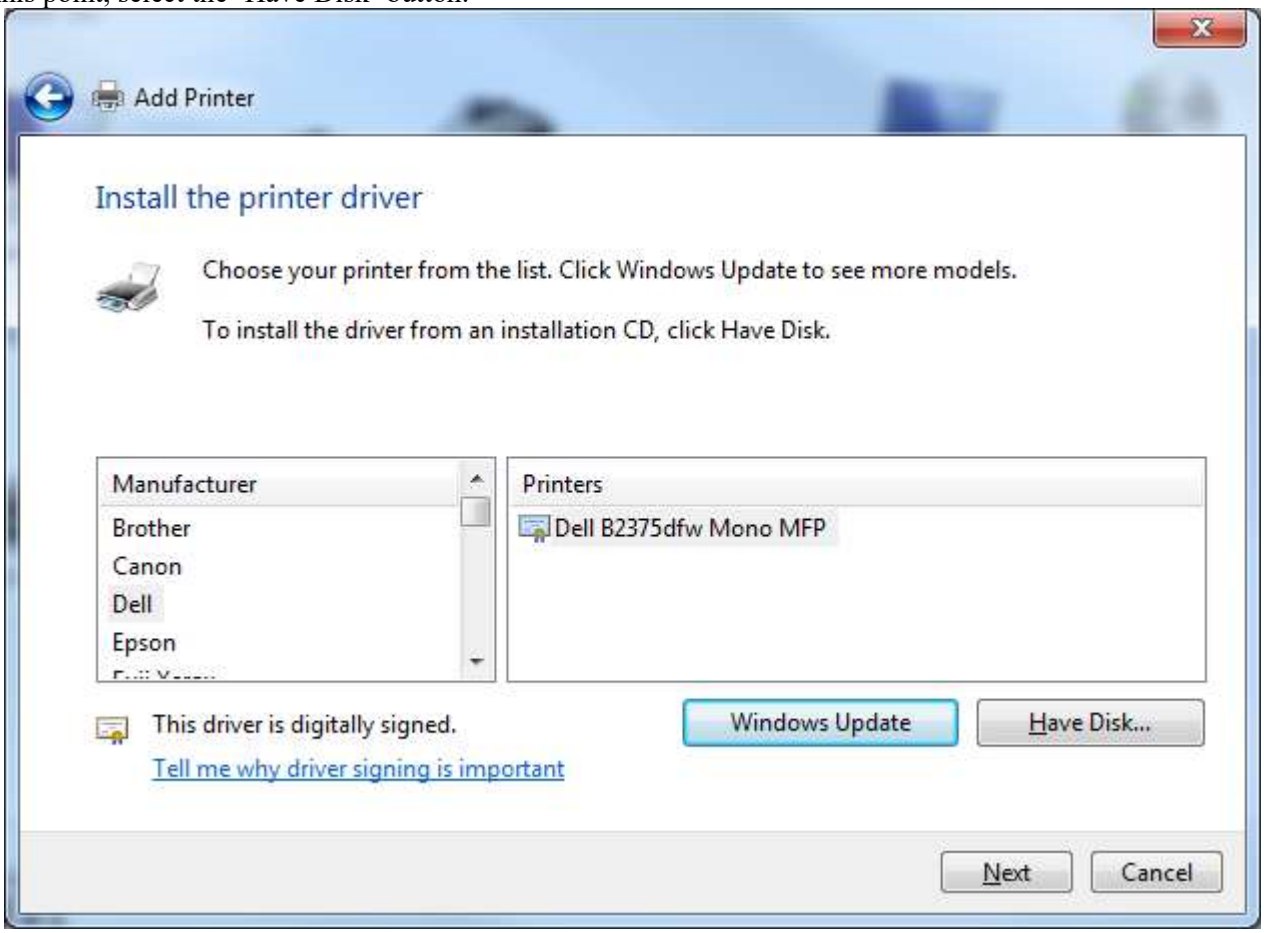
8. Go to Control Panel's 'Devices and Printers'. Select 'Add a Printer'.



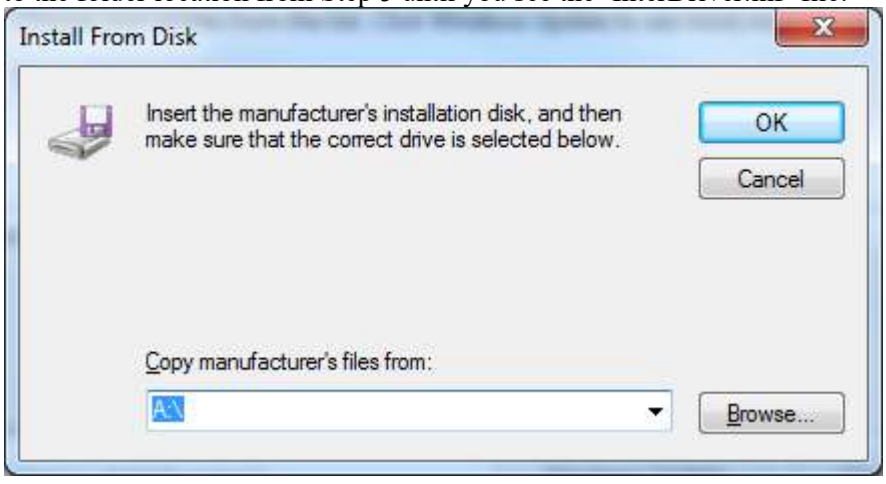
9. Select ‘Add a local printer’. Select ‘Use an existing port:’. If ‘usb’ is a choice, take it. If not, try ‘Nul: (Local Port)’, then the ‘Next’ button.

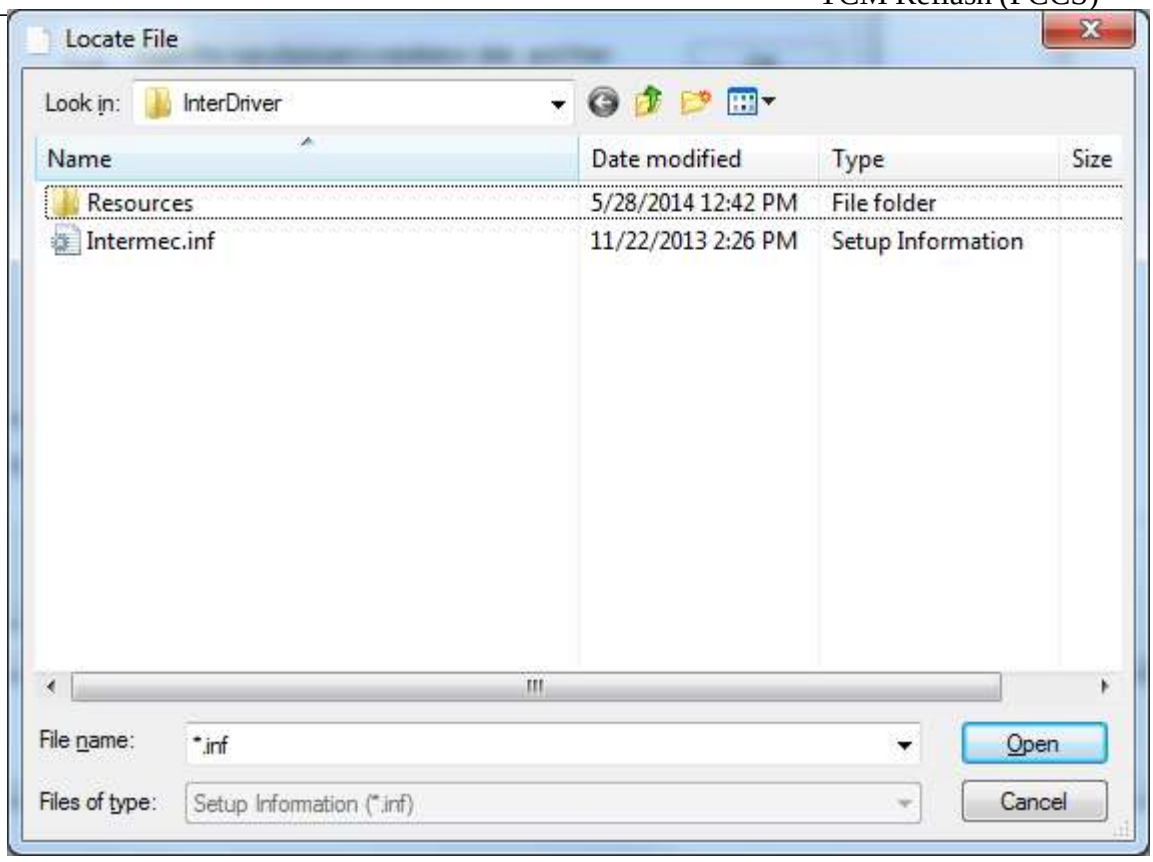


10. At this point, select the ‘Have Disk’ button:

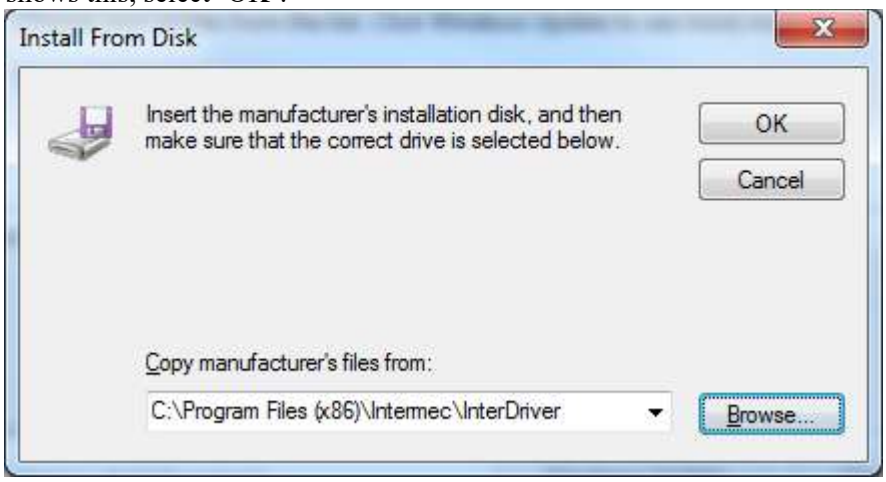


11. Now navigate to the folder location from Step 5 until you see the ‘InterDriver.inf’ file:

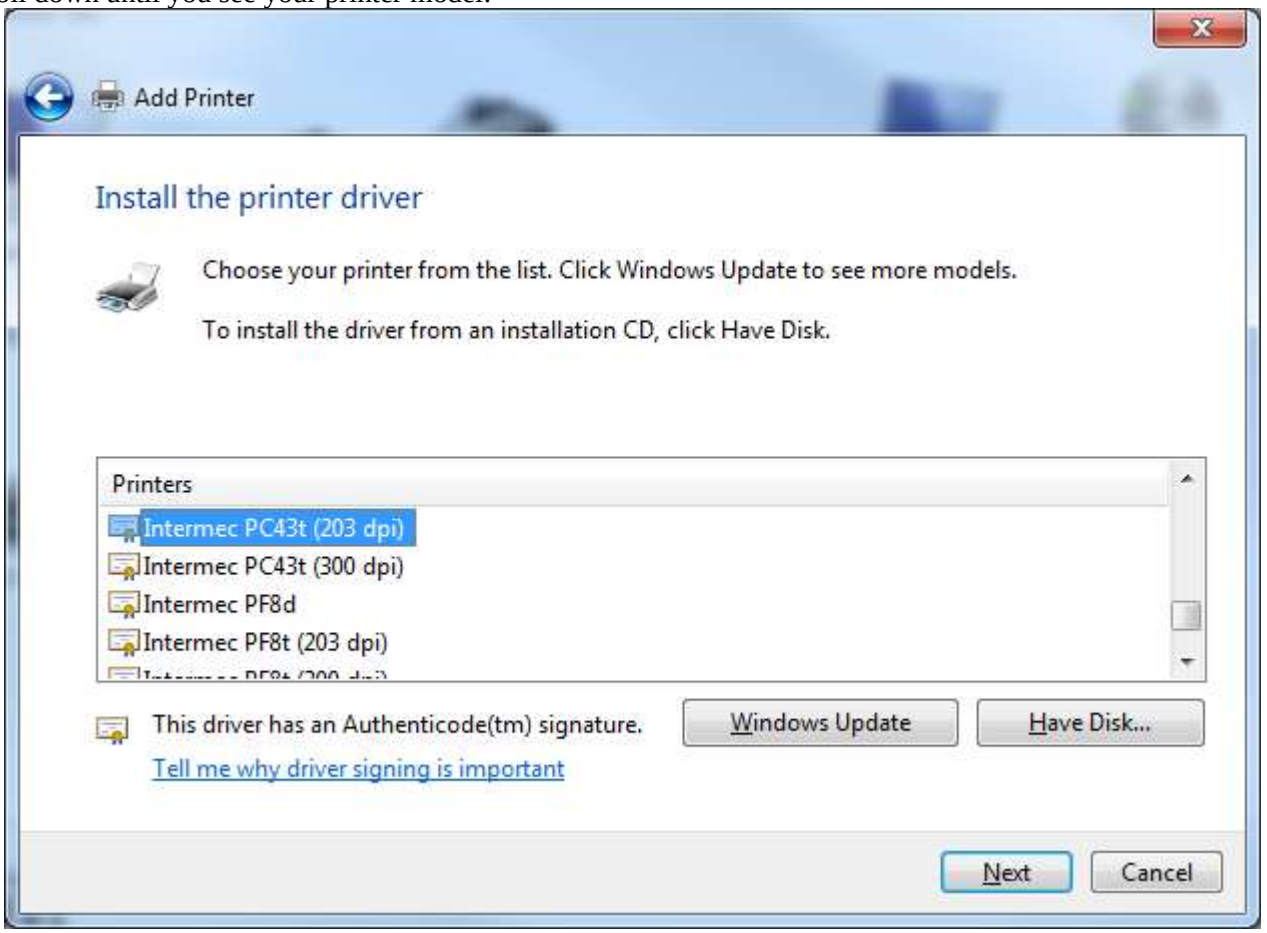




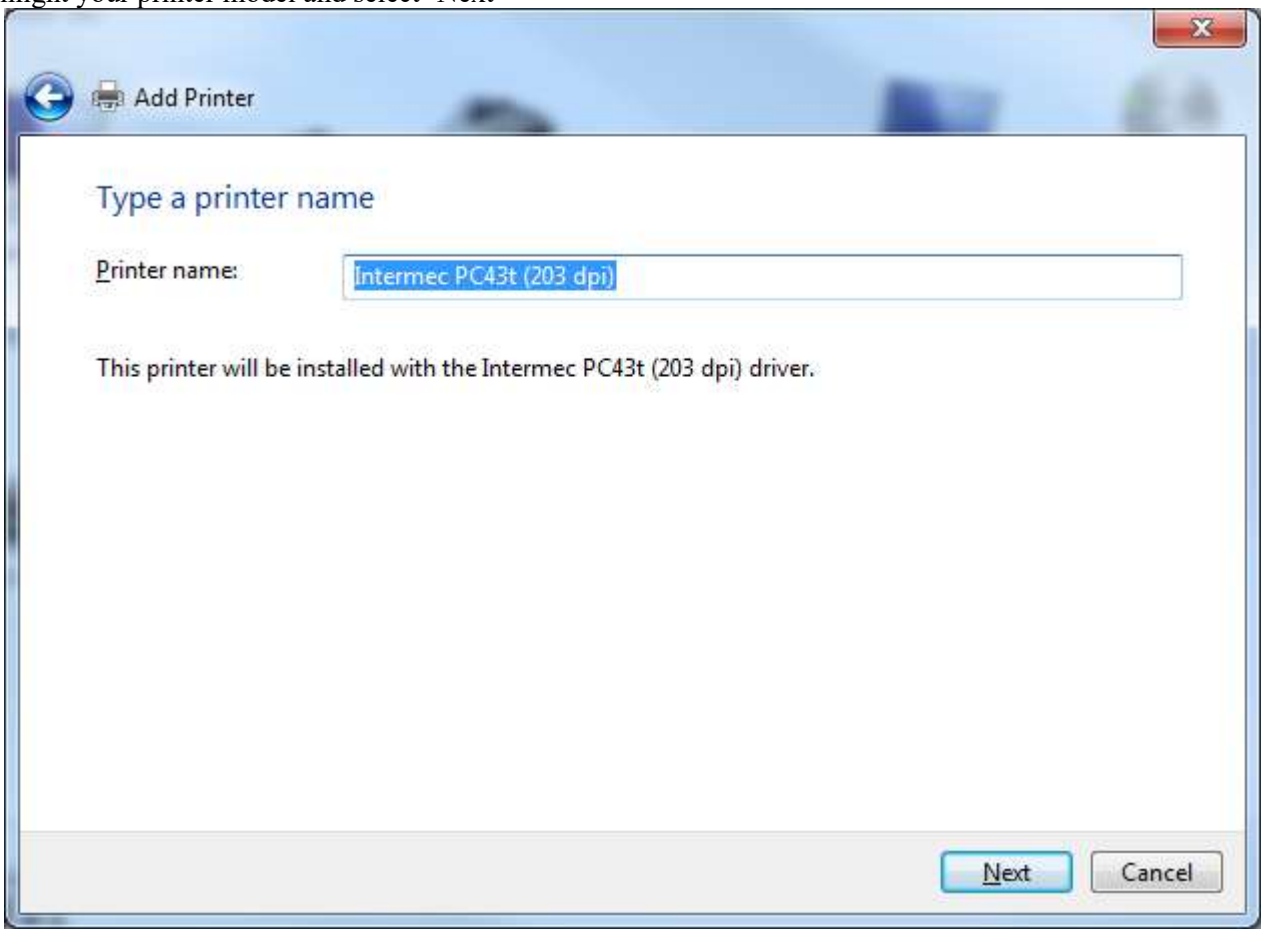
12. When your pc shows this, select ‘OK’:



13. Scroll down until you see your printer model:



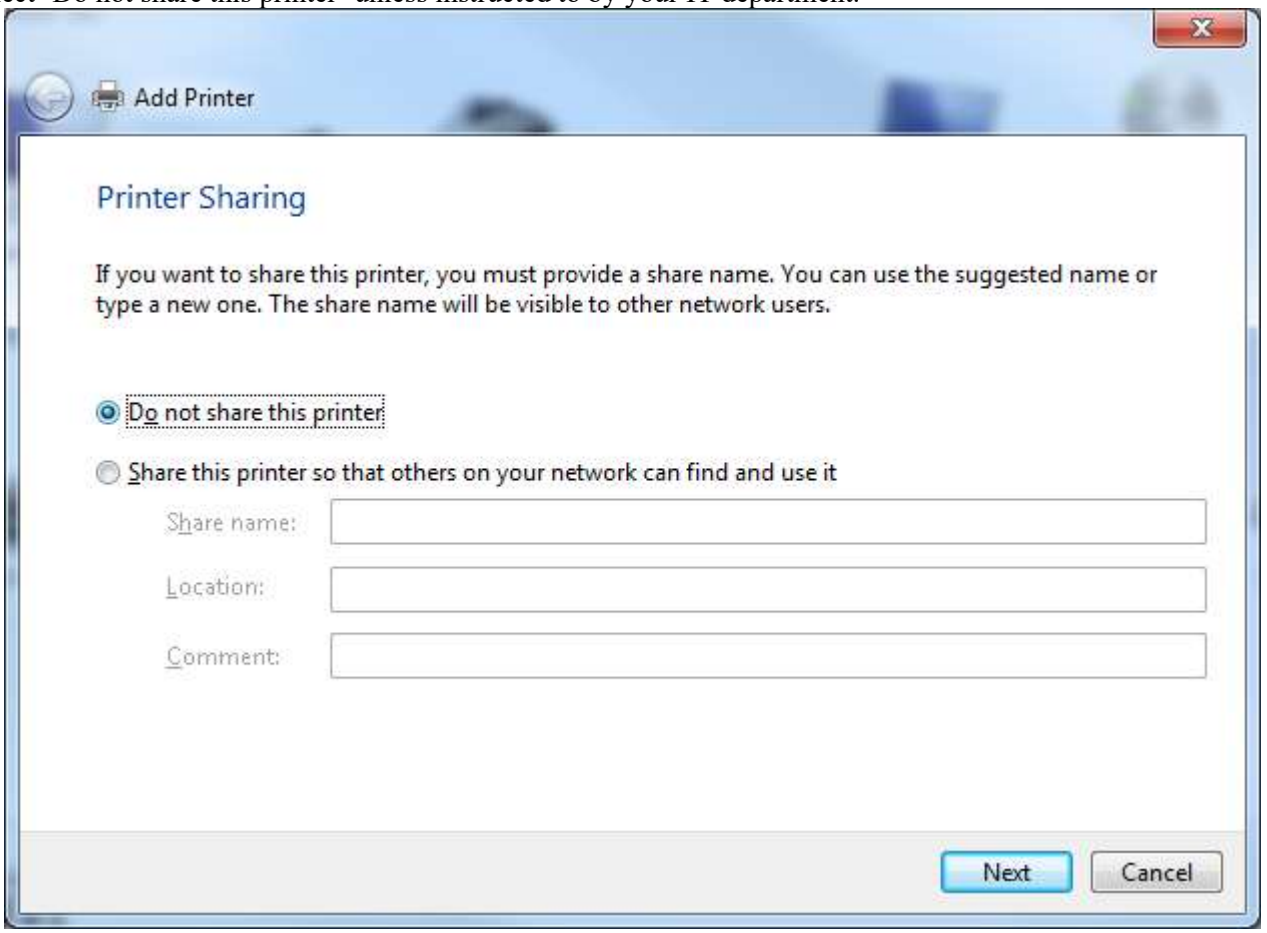
14. Highlight your printer model and select ‘Next’



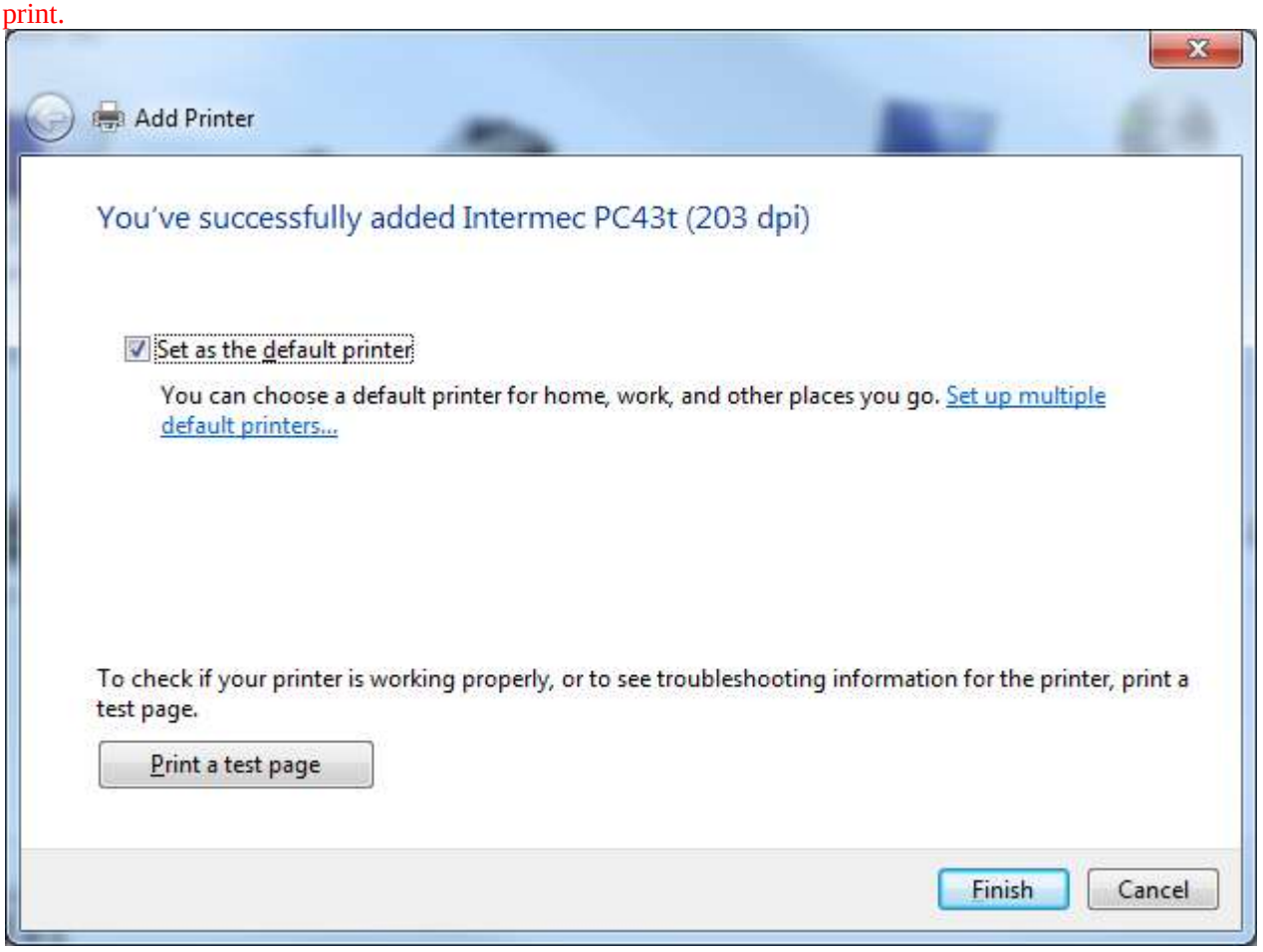
15. Select Next
16. Select Install when you see this:



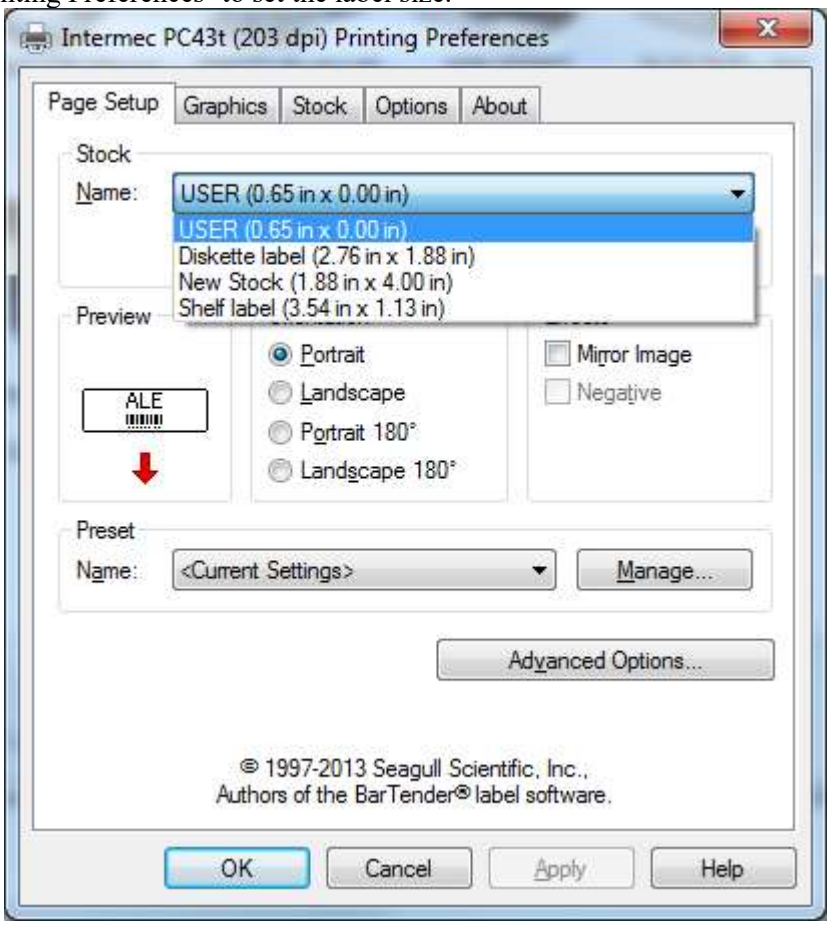
17. Select ‘Do not share this printer’ unless instructed to by your IT department.



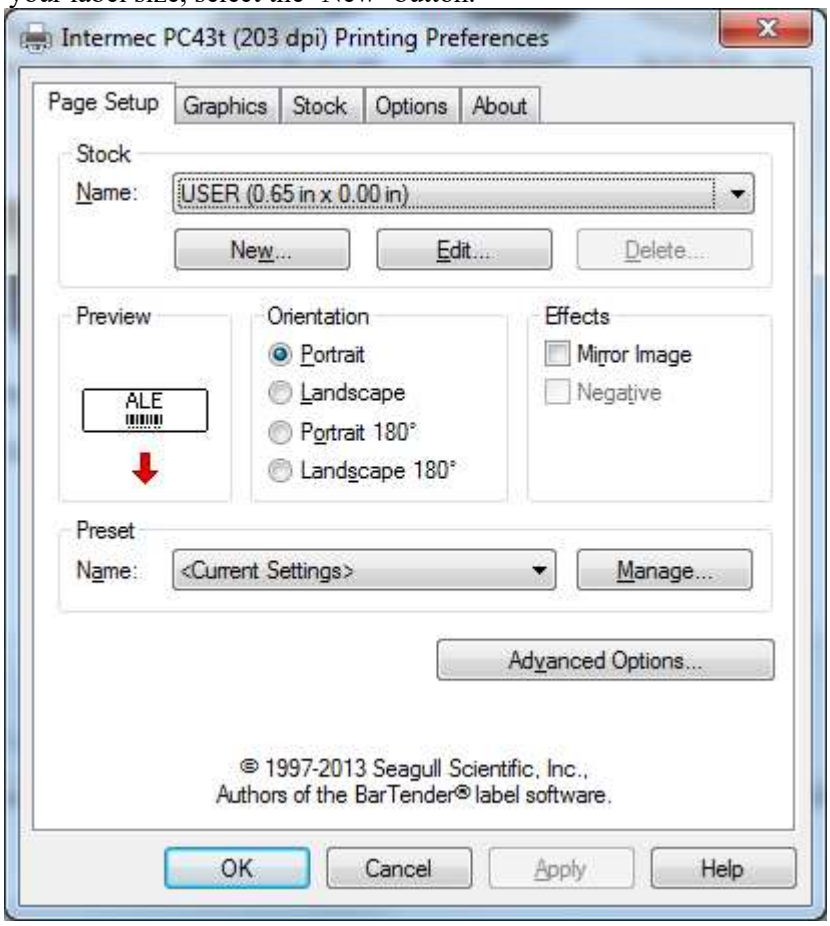
18. Connect the printer and turn it on. Select 'Print a test page' to verify that the operating system can communicate to your printer. If the Windows test page does not print, verify the previous steps and contact Intermec support. Do not proceed with the following steps if the Windows test page does not print.



19. From Control Panel's 'Devices and Printers', right mouse click on the Intermec printer and select 'Printing Preferences' to set the label size.



20. If you do not see your label size, select the 'New' button.



21. Replace 'New Stock' with a unique name and enter your label size seen as you look at the PRINTER (4" x 2"; European users select 101,6 mm x 50.8 mm). For the EasyCoder PC43t, the Orientation should be 'portrait', not 'landscape' and the TCM Reflash preview will look truncated. This is normal.
22. Select 'OK'.
23. Start TCM Reflash, login and select a database.
24. To test label printing for non-5th/6th generation databases, highlight a row in the bottom grid, select the 'Reports' menu item and then 'Print TCM Labels for Calibration to Load'. The label printed will include the bar code stripes. The preview will not include the bar code stripes. If it is truncated, has excessive white space, etc., measure your labels and adjust the printer's preferences (step 21).

6.3 Most Common Label Problems:

1. Label is faint
   a. New ink cartridge/tape is needed. Suspect this if the printer has worked in the past
   b. Wrong thermal paper is used. Suspect this if the printer is new. Contact Intermec for support.
2. Label prints sideways. Check that 'Portrait' is selected in Printing Preferences (Step 21).
3. Label is cut off. Check the size and orientation in step 21 (Printing Preferences).
4. Blank label is printed. Verify paper size specified in step 21.
5. Label doesn't print. Check whether a test page can be printed outside of TCM Reflash. If it cannot, the problem occurred prior to step 19.

6.4 For ECU Labels

- Thermal transfer label stock for the Intermec printer (Super Premium 2 mil gloss polyester labels with perforations. Size: 1.85-inch by 3.85-inch. Intermec P/N

E05551).

- Protective Overlaminate for either label type. Size: 4.25-inch by 2.25-inch butt cut overlaminate, Intermec P/N E05552.
- Thermal Transfer Ribbon for Intermec printer: 2-inch by 6000-inch Black Super Premium TTR Ribbon Cassette. Intermec P/N 1322006.

6.5 For Report Printing

- IBM-compatible printer for printing calibration summary and shift point schedule reports.
- Laser printer is recommended.

6.6 Other Hardware Required

- ECU and TCM Calibration Load Box for calibrating the modules. This box simulates a transmission and may be obtained from SPX Kent-Moore; P/N J-42455-A.
- A supported translator device.
- TCM Harness for Bench or Vehicle. Depending on control system type, different service harnesses are available. For the control system-specific service harness part numbers, refer to the diagrams of Appendix C.

SOURCES FOR HARDWARE

Noregon Systems
7009 Albert Pick Road
Greensboro, NC 27409
Phone: (336) 615-8555
Fax: (336) 615-8564
E-mail: sales@noregon.com
www.noregon.com

Intermec
Phone: 1-800-755-5505
www.intermec.com

SPX Service Solutions
28635 Mound Road
Warren, Michigan 48092
Phone: 1-866-621-2128 (US/Canada) or
1-507-455-7223 / 1-800-345-2233 (International)
Fax: 1-800-578-7375 / 1-586-578-7375 (US/Canada) or
1-507-455-7063 (International)

DB9 to DB15 CAN Card Adapter Cable—User Furnished

Additional Hardware Used With CAN Card:

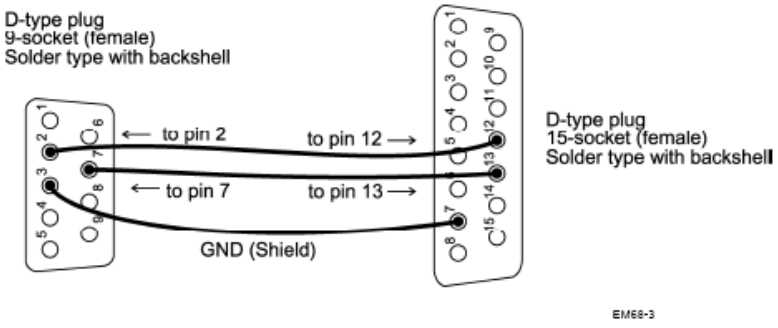


Figure II-1: DB9 to DB15 CAN Card Adapter Cable - User Furnished

7 Appendix C—Hardware Configuration

7.1 Allison 4th, 5th and 6th Generation Controls TCM / Load Box Bench Setup

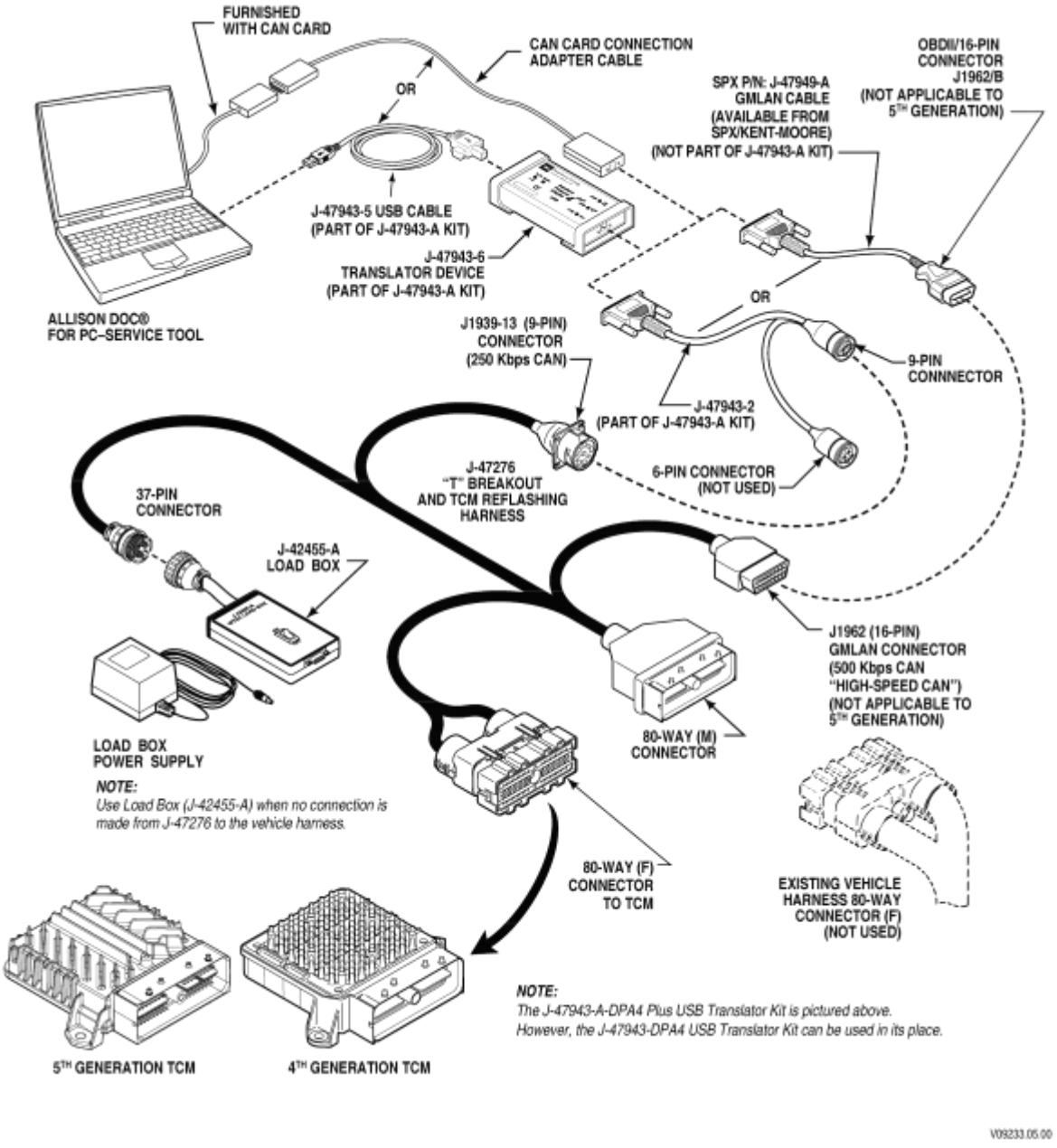
For TCM / Load Box setup (no connection to vehicle), use the J-47276 harness for TCM Reflash. This harness is required for bench-type reflash of Allison 4th, 5th and 6th Generation Controls TCMs. Use one of the following methods for TCM Reflash:

- J1939-13 connector (for J1939 communication) in combination with J-42455-A Load Box/Power Supply.
- J1962 connector (for GMLAN / J2284, high-speed CAN communication) in combination with J-42455-A Load Box/Power Supply.

Note:

To use the J1962 connector, an additional cable (J-47949 / J-47949-A) is required. J-47949 / J-47949-A is available for purchase from SPX/Kent-Moore.

J-47276 Allison 4th, 5th and 6th Generation Controls TCM / Load Box Bench Setup



7.2 Allison 4th, 5th and 6th Generation Controls TCM / Vehicle Harness Setup

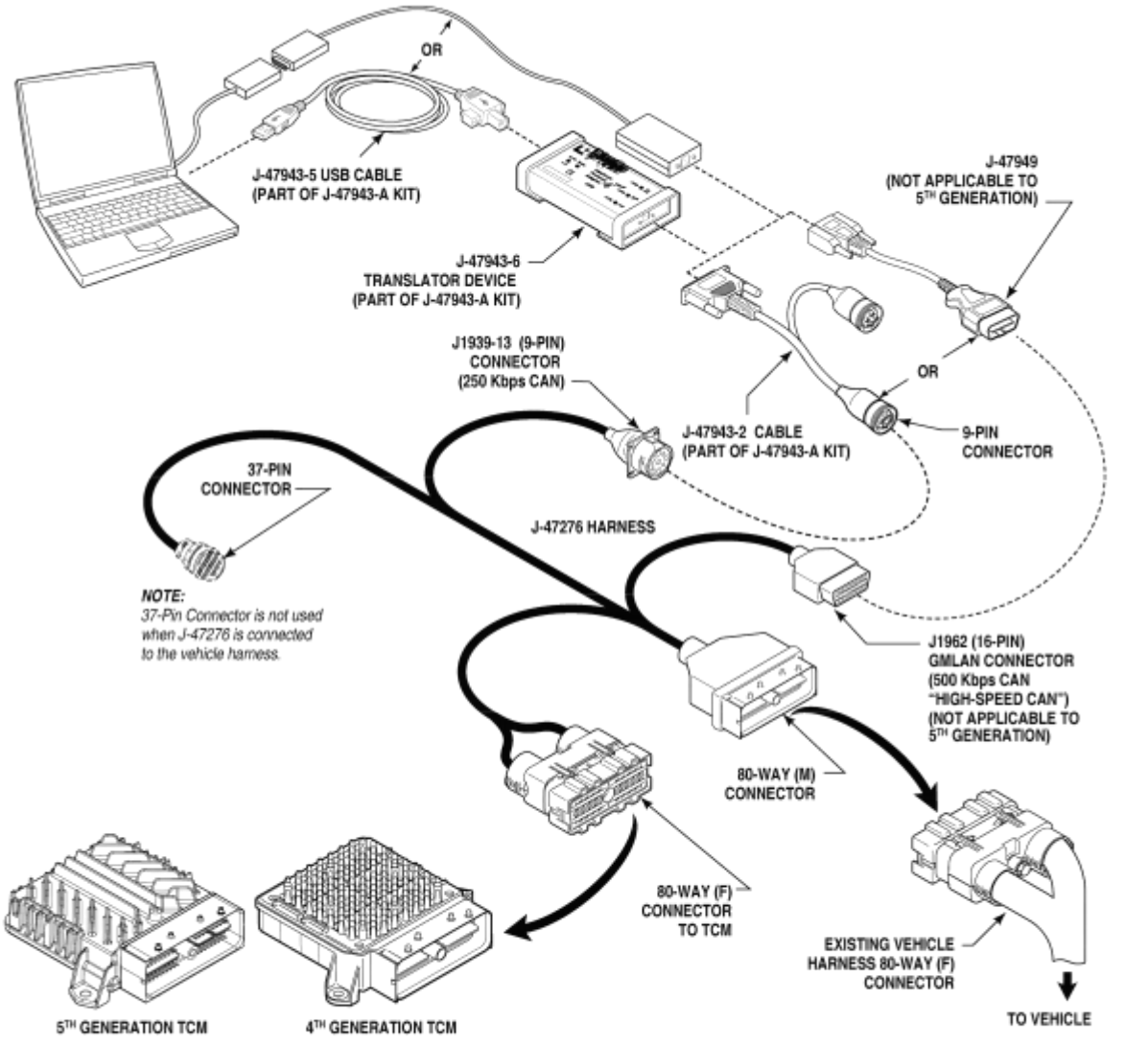
- On the vehicle, use the J-47276 harness to connect the PC directly to the TCM to bypass the Diagnostic Tool Connector.
- Use one of the following Diagnostic Tool Connectors on the harness to establish a connection between the TCM and the PC running PCCS:
  - J1939-13 connector (for J1939 communication)
  - J11962 connector (for GMLAN / J2284, high-speed CAN communications)



Note:

To use the J1962 connector, an additional cable (J-47949-A) is required. J-47949 is available for purchase from SPX/Kent-Moore.

J-47267 Allison 4th, 5th and 6th Generation Controls TCM / Vehicle Harness Setup

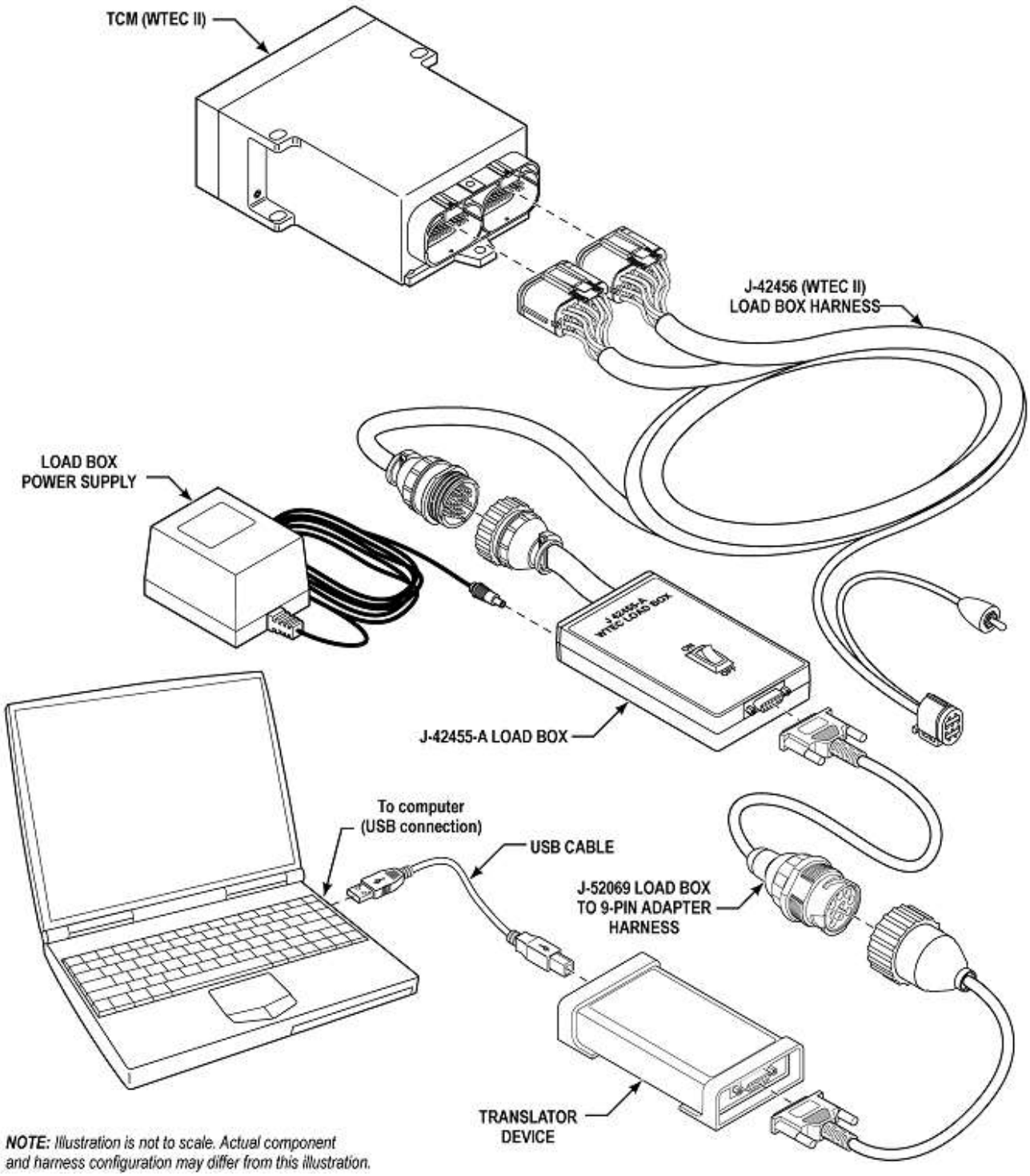


NOTE:
The J-47943-A-DPA4 Plus USB Translator Kit is pictured above.
However, the J-47943-DPA4 USB Translator Kit can be used in its place.

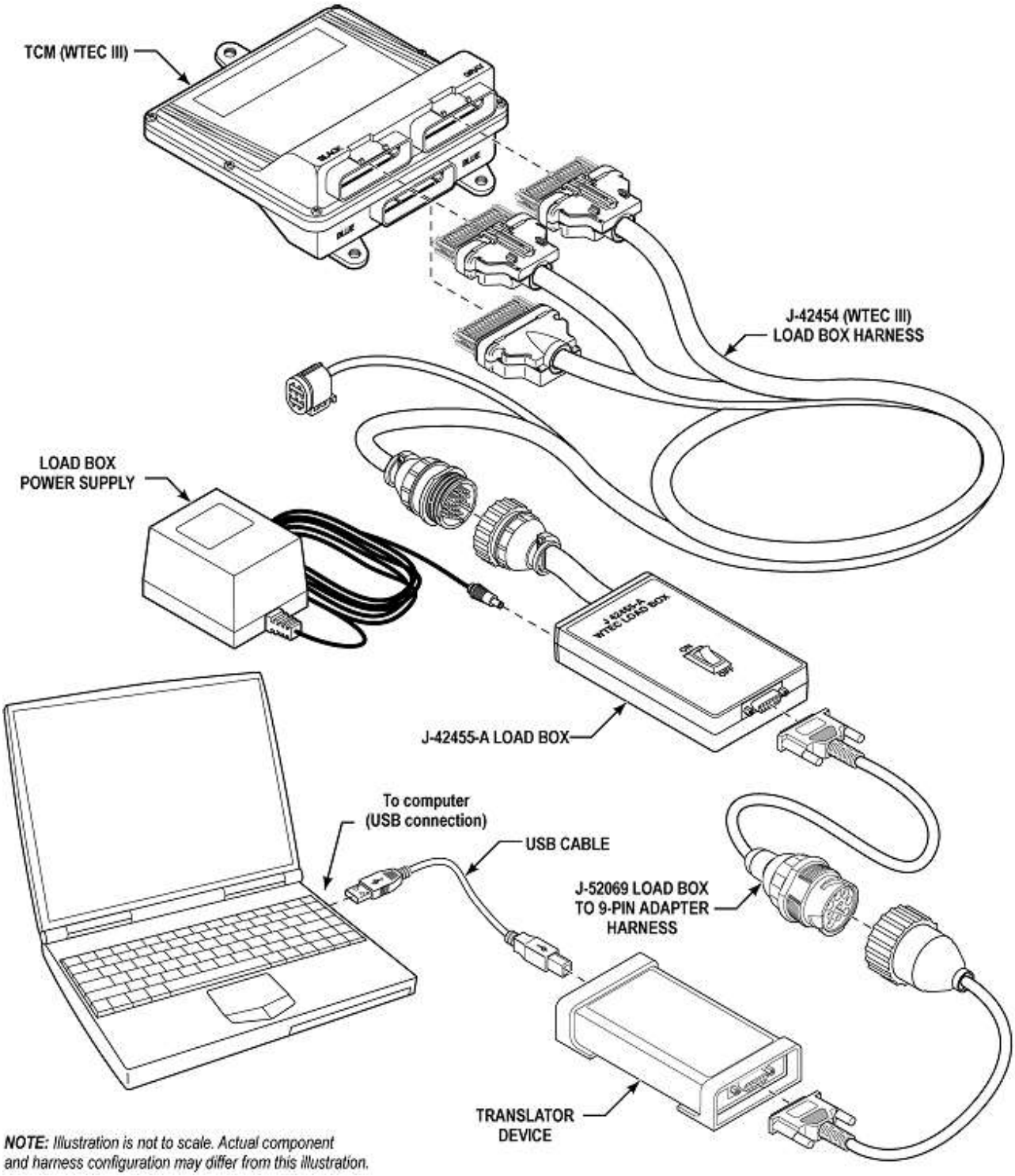
V20023.01.00

7.3 Earlier Hardware Configurations

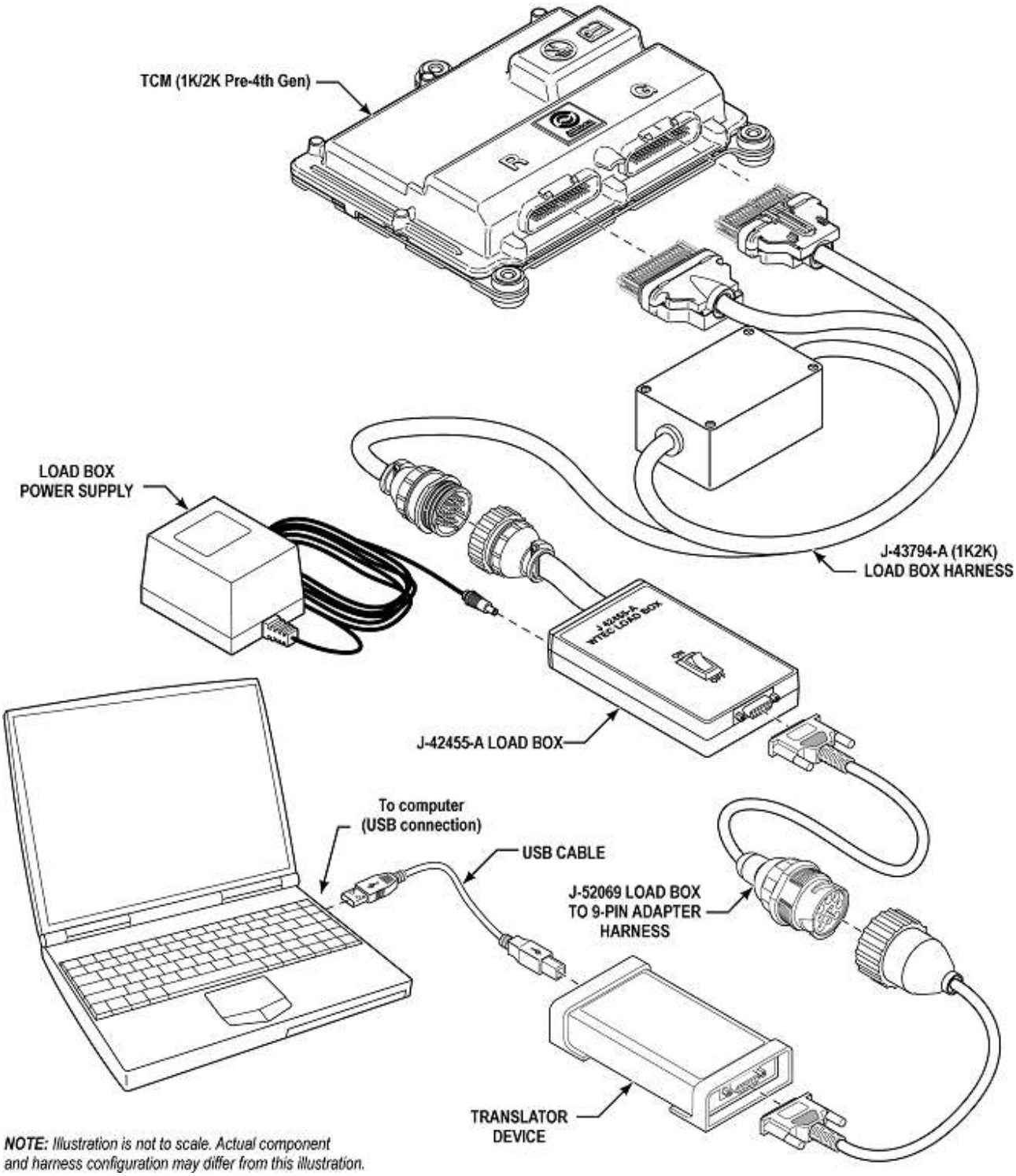
7.3.1 WTEC-II ECU Reflash Load Station (Bench)



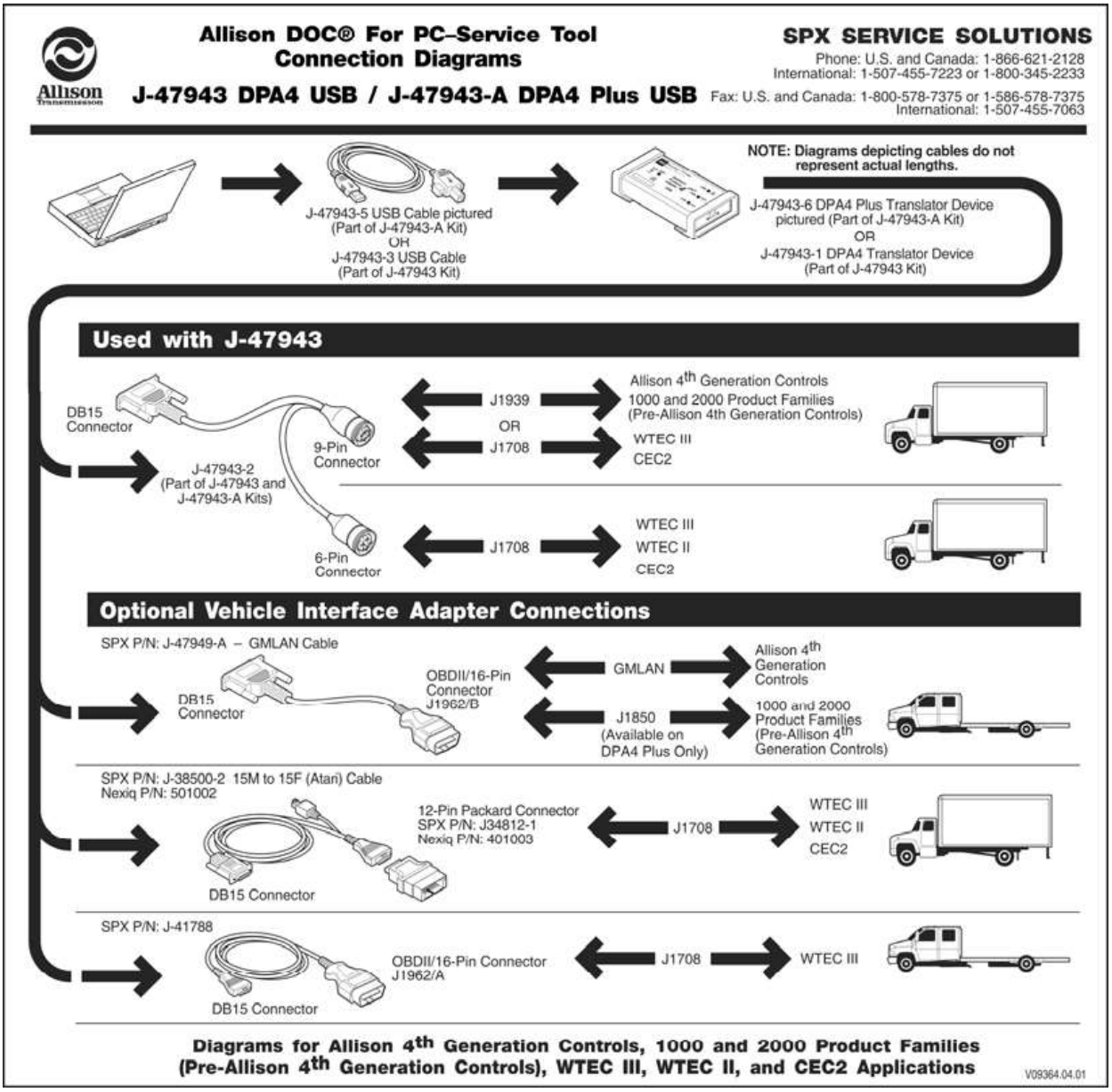
7.3.2 WTEC-III or CEC2 ECU Reflash Load Station (Bench)



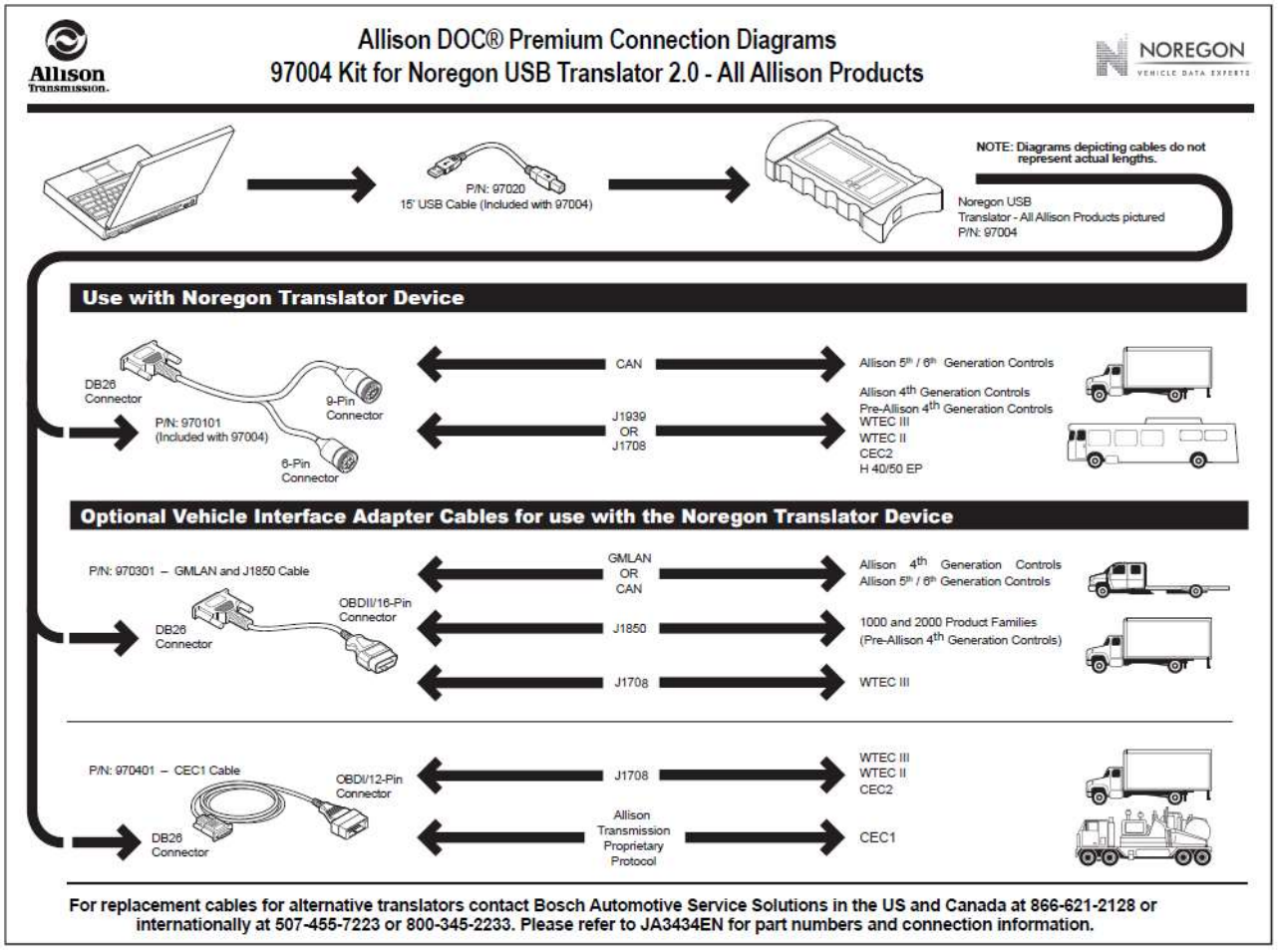
7.3.3 1000 / 2000 TCM Reflash Load Station (Bench)



7.3.4 All Product Families TCM Reflash Load Station (Vehicle)



7.4 Current Hardware Configuration





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