



# Infor Tower Automotive 4010 (AW)

AutoMap

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| Changed By | Date | Reason | Update# | Section Changed |
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|            |      |        |         |                 |

# General Information

## Transaction Sets

The Tower Automotive 4010 module supports the following transaction sets. Your customer may or may NOT send or require all these transaction sets.

- 830 Material Release Version 4010
- 856 ASN Version 4010
- 862 Shipping Schedule Version 4010
- 997 Functional Acknowledgement Version 4010

The **830 (Material Release)** is intended to be used for planning requirements. However, at your customer's discretion, the 830 can be used for firm ship requirements, or for both planning and firm requirements, with the use of the type and frequency codes, assigned in the interface.

The **856 (ASN)** may be required to be transmitted for each shipment within the time frame defined by your customer.

The **862 (Shipping Schedule)** is intended to be used for firm ship requirements.

The **997 (Functional Acknowledgement)** may be required to be transmitted, by the supplier, to acknowledge the received files, within the time frame defined by your customer. The customer may send a 997 to acknowledge the 856 from the supplier.

## Ship To Locations

Ship To locations for Tower Automotive 4010 are listed below.

| <u>Location</u>       | <u>Qualifier</u> | <u>ID</u> |
|-----------------------|------------------|-----------|
| • Tower Auburn        | ZZ               | 006407126 |
| • Tower Bardstown     | ZZ               | 879719912 |
| • Tower Bellevue      | ZZ               | 623470416 |
| • Tower Bluffton      | ZZ               | 045244985 |
| • Tower Chicago       | ZZ               | 139890557 |
| • Tower Clinton       | ZZ               | 928966266 |
| • Tower Elkton        | ZZ               | 005398615 |
| • Tower Madison       | ZZ               | 009348384 |
| • Tower Meridian      | ZZ               | 779947717 |
| • Tower Plymouth      | ZZ               | 956723399 |
| • Tower Smyrna        | ZZ               | 139890615 |
| • Tower Traverse City | ZZ               | 877233502 |

# Security

## Communication Method

Tower Automotive 4010 communicates through the ACM (Advanced Communications Module) component.

For more information on ACM, see Chapter 17 of the AutoRelease Main Manual. Enter security requirements (identification codes, passwords, etc.) before attempting to receive or transmit. Network security is entered one time, but may be accessed by multiple trading partners.

Note: When establishing communication set up either with a VAN or direct, the following must exist:

Wrap Data? YES - 80

Start New Record on New Interchange? YES

## File Archiving / Auto Print and Process

(Option 3 on the AZ10 Menu - ACM)

|  |                       |
|--|-----------------------|
| AZD2008  | PROCESS PROFILE SETUP |
| <p>OEM .....<br/>         Company .....</p> <p>Auto Print .....<br/>         Auto Process.....<br/>         Auto 997.....<br/>         Days To Archive.....</p> <p>F4=Prompt    F12=Cancel</p> |                       |

- Auto Print (Y/N) - Enter "Y" if using AutoReceive and Breakdown (scheduled through ACM), to perform an automatic Print after the Breakdown. Enter "N" if not using AutoReceive, or, if using AutoReceive and Breakdown, if the Print option is not to be run automatically after the Breakdown.
- Auto Process (Y/N) - Enter "Y" if using AutoReceive and Breakdown (scheduled through ACM) and if also using Auto Print, to perform an automatic Process after the Receive, Breakdown and Print. Enter "N" if not using AutoReceive, or, if using AutoReceive, Breakdown, and Auto Print, if the Process option is not to be run automatically after the Print.
- Auto 997 (Y/N) – Enter "Y" and a 997 will automatically be sent back to the OEM acknowledging receipt of inbound EDI data.
- Days to Archive - Enter the number of days to archive files received from the OEM. Files must be saved at least one day. Archived files are files that are stored for a given number of days, so that they can be reactivated. The number of days is not based on calendar days. Only the number of days when a communication session takes place is counted. Then the archived files are removed during the next Shift.

Note: Only error free requirements are processed. Errors must be corrected and the "Print" and "Process" options must be taken manually to process the remaining data.

# Implementation

## Identification Code File

The Identification Code File is used when taking the option to "Split" a file received from the trading partner and when transmitting ASNs. The Identification Code File is used differently by different manufacturers.

### Initial Record

|                |                                    |
|----------------|------------------------------------|
| Company Number | - xx                               |
| OEM Code       | - AW                               |
| Plant ID       | - Mutually-defined plant ID code * |

Press Enter to display remaining fields:

|                        |   |
|------------------------|---|
| OEM ID                 | - The ID code used to identify your customer ** |
| Corporate ID           | - Not used by Tower Automotive 4010             |
| Remit to Duns #        | - Not used by Tower Automotive 4010             |
| Transmission Mode      | - P   |
| Smart Labels           | - N   |
| Pallet Staging         | - N   |
| Bar Code File Transfer | - N   |
| Variable Unwrap Print  | - N   |
| Automatic print of 997 | - N   |
| AutoMap                | - Y   |

Errors that occur during the "Split" that indicate a code is missing from the Identification Code File are referring to Plant ID or OEM ID.

AutoMap - Enter "Y" to place data in the AutoMap files (during the Split).

The trading partner business practices may be inconsistent from supplier to supplier. For example, the Plant ID may be a DUNS number for one supplier and another code for another supplier.

### Additional Records to Identify Destination as Issuer

If requirements are received, from the same customer, but the Issuer IDs are different for each destination or division, additional identification code records are needed to identify the destination as the issuer.

Enter a separate record for each destination or division that transmits requirements using a unique Issuer ID. The first record contains your supplier code in the Plant ID field. Each additional record contains a "dummy" ID in the Plant ID field. Use any number except a real supplier identification code used by this or another trading partner.

\*\*OEM IDs for each destination must be provided by your customer that is issuing the requirements.

## Master File Entry

The entry of each master file is NOT explained in this document. Only the master files that require unique entry, to accommodate specific business practices for this trading partner are noted.

## Model Year

Tower Automotive 4010 does not send Model Year. Therefore, the Requirement and Price Files must be entered with the Model Year fields blank.

## Requirement File - Clear Flags

The Requirement Master clear flags should not be marked. Keywords are used to determine what to clear based on purpose codes.

## Requirement File - Report Flags

The report flags are marked depending on the transaction sets received from Tower Automotive 4010. The report flags may be marked one of three ways:

- When both 830s and 862s are received mark the 830 and 862 report flag.

|     |     |     |     |
|-----|-----|-----|-----|
| 866 | 862 | 830 | 850 |
| —   | X   | X   | —   |

- When ONLY 830s are received mark the 830 report flag.

|     |     |     |     |
|-----|-----|-----|-----|
| 866 | 862 | 830 | 850 |
| —   | —   | X   | —   |

- When ONLY 862s are received mark the 862 report flag.

|     |     |     |     |
|-----|-----|-----|-----|
| 866 | 862 | 830 | 850 |
| —   | X   | —   | —   |

## CUM Required Prior

Tower Automotive 4010 sends CUM required prior. Therefore, it is not necessary to enter it manually before going live. The CUM required prior is used to calculate ahead and behind figures and to round to package quantity. Enter the CUM required prior when entering a Tower Automotive 4010 manual requirement or while testing. To enter, press F5 or select a part from the Manual Requirements Entry screen.

## Reports

"TOWER\_4010" is the trading partner name that is printed on all reports for the Tower Automotive 4010.



## Hexadecimal Codes for the ASN and outbound 997

If Tower Automotive 4010 is not using the hexadecimal codes provided by Infor the codes must be modified.

Infor-provided hexadecimal codes include:

- Sub Element Separator | (7C)
- Data Element Separator \* (2A)
- Segment Terminator ~ (7E)

To modify the hexadecimal codes:

1. Access the AutoMap Menu.
2. Take the Map Maintenance option.
3. Select the trading partner with 1 (select).
4. Select the 856 transaction set with 5 (segments).
5. Press F8 (enveloping).
6. The maintain Trading Partnership File is displayed. Modify the hexadecimal codes that are different from the Infor provided hexadecimal codes.
7. Press Enter.

If an outbound 997 is used repeat steps 1 - 7 for the 997, replacing 856 with 997.

## Release Number

The Release Number sent by Tower Automotive 4010 processes into the Requirement File and the Shipping file. Note that because the Release Number sent is longer than the Release Number field, the first two characters (the first two characters of the current year) are dropped.

**Example:** If Tower Automotive 4010 sends the Release Number "20070413-000," the number "070413-000" is processed into the Release Number field.

# ASNS

## ASN Cancellation Procedure

To cancel an ASN, call Tower Automotive 4010.

## ASN Fields

The only fields that are mandatory are the ASN purpose, ship date, shipment quantity, ASN Unit of Measure and release number. The other fields listed are defaulted because they are retrieved from existing files within AutoRelease. These fields are warning messages and will not halt the creation of the ASN file.

**Note:** If Tower Automotive 4010 requires specific data in the ASN file and will reject the ASN if this data is missing, the warning messages may be changed to terminal messages based on the data that this customer has defined as "mandatory." Terminal messages will halt the creation of the ASN file so errors may be corrected and a file that will be rejected is NOT transmitted.

## ASN Header Maintenance Screen

|                       |   |   |
|-----------------------|---|---|
| ASN Purpose           | - | Mandatory. Transmitted in the BSN 01. Valid codes include:<br>O - Original 00 |
| Equipment Description | - | Mandatory. Transmitted in the TD3 01.   |
| Equipment Initial     | - | Mandatory. Transmitted in the TD3 02.   |
| Ship Date             | - | Mandatory. Transmitted in the DTM 02.   |
| Ship Time             | - | Mandatory. Transmitted in the DTM 03.   |
| Pick up Carrier       | - | Mandatory. Transmitted in the TD5 03.   |
| Conveyance Code       | - | Warning. Transmitted in the TD5 04.   |

## Flags/Codes Screen

|           |   |   |
|-----------|---|---|
| ASN Codes | - | "V" for variable length without bar code. |
|-----------|---|---|

## ID Numbers Screen

|             |   |                                      |
|-------------|---|--------------------------------------|
| Supplier ID | - | Mandatory. Transmitted in the N1*04. |
|-------------|---|--------------------------------------|

## Reference # Screen

|     |   |                                     |
|-----|---|-------------------------------------|
| BOL | - | Warning. Transmitted in the REF*02. |
|-----|---|-------------------------------------|

Conveyance Bill - Mandatory. Transmitted in the TD3 03.

### **ASN Detail Maintenance Screen**

Cust Part # - Mandatory. Transmitted in the LIN 03.

Shipment Qty - Mandatory. Transmitted in the SN1 02 and CTT 02.

Ship Net - Warning. Transmitted in the MEA 03.

Ship Gross - Warning. Transmitted in the MEA 03.

CUM Shipped - Warning. Transmitted in the SN1 04.

ASN Unit/Mea - Mandatory. Transmitted in the SN1 03.

### **ASN Container Review Screen**

Container Description - Warning. Transmitted in the TD1 01.

Container Qty - Warning. Transmitted in the TD1 02.

# How to Use This Document

This document provides information regarding unique instructions required to implement this trading partner's unique business practices. There is a separate document called "AutoMap Manual" which describes those procedures which apply to all trading partners (NOT unique for each trading partner) such as the daily procedures, job controls, etc.

## General Information

The general information section of this document describes transaction sets, how they apply to this trading partner and other miscellaneous information.

## Security

The security section of the document explains the network(s) used by this trading partner, and specific information about how to create the Trading Partner Cross Reference File.

## Implementation

Requirements received via AutoMap are processed into the AutoRelease master files to perform shipping, ASN and invoicing functions. Therefore, enter all master files in the same manner as required when processing data from the AutoRelease menus.

**Exception:** Special AutoMap processing needs are handled via keywords in AutoMap. Therefore, clear flags and special processing flags (F20) should not be marked.

The entry of each master file is NOT explained in this supplement. Only those that require specific fields marked to accommodate specific business practices for this trading partner are noted.

The master files required during the "Process" from the AutoMap Requirement Display, are the same files that are required when processing from the VL0 menus:

- Machine Readable - Customer and Destination
- Parts Cross Reference
- Requirement Master

These files must be entered to successfully process data into the Requirement and Load Files.

## ASNs

All AutoMap trading partners transmit ASNs to the trading partner by using option 3 (ASNs) from the AutoMap menu. The ASN section of each trading partner document describes the ASN cancellation procedure and mandatory ASN fields for a specific trading partner.

A complete description of the common options can be found in the ASN section of the AutoMap Manual.

## AutoMap Features and Preferences

In AutoMap, keywords are unique for the business practices of the trading partner. This section describes how to access keywords, whether there are optional or conditional keywords for this trading partner, and how to activate and deactivate keywords.

### Activate or Deactivate Keywords - Change Error Types (Warning - Terminal)

Keywords activate special processing to accommodate the OEM's practices. To view these keywords:

1. Access the AutoMap Menu.
2. Take the Process Keywords options.
3. Select the trading partner with 7 (keyword options).
4. Keywords are displayed for the selected trading partner.
5. Select the keyword to be changed with 1 (select).

The error maintenance screen displays. The fields that can be changed include:

Error Type        -        The error type may be W (warning) or T (terminal).

**T (terminal)** - When the create and transmit ASNs option is taken the ASN records are checked for missing fields that may cause the ASNs to be rejected. If terminal errors are found, (errors that will cause the ASN to be rejected according to OEM specifications) the program ends, the ASN Verification Report prints and a break message is displayed. Terminal errors must be corrected before taking the create and transmit option again.

**W (warning)** - When the create and transmit ASNs option is taken the ASN data is verified. If only warning errors are found, the ASN Verification Report prints and a break message is displayed that gives the user the option to continue with errors or to cancel. Error Message - The message that is displayed when this error is encountered may be changed.

Active            -        The keyword may be active (Y) or inactive (N).