



Infor Mark IV (IV)

AutoMap

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## Table of Changes

Changed By	Date	Reason	Update#	Section Changed

## General Information

### Transaction Sets and Versions

The Mark IV Automotive module supports the following transaction sets:

- |       |                            |              |
|-------|----------------------------|--------------|
| • 810 | Electronic Invoice         | Version 4010 |
| • 824 | Application Advice         | Version 4010 |
| • 830 | Material Release           | Version 4010 |
| • 856 | ASN                        | Version 4010 |
| • 861 | Receiving Advice           | Version 4010 |
| • 862 | Shipping Schedule          | Version 4010 |
| • 997 | Functional Acknowledgement | Version 4010 |

The **810 (Electronic Invoice)** is required to be transmitted to Mark IV Automotive within 48 hours of shipping the product. The supplier is paid from the electronic invoice.

The **824 (Application Advice)** reports errors of content in the 856 file transmitted by the supplier.

The **830 (Material Release)** used for planning.

The **856 (ASN)** is required to be transmitted for each shipment when the truck leaves the plant.

The **861 (Receiving Advice)** is a discrepancy report providing information to notify the supplier when the ASN data are not the same as the data recorded by Mark IV when the shipment is received.

The **862 (Shipping Schedule)** are firm ship requirements.

The **997 (Functional Acknowledgement)** is required to be transmitted to acknowledge the received files, within the time frame defined by Mark IV Automotive.

### Mark IV Automotive Issuer & Destination Codes

Ship-to locations include the following:

- 536 - Williston, SC
- 537 - Walterboro, SC
- 541 - Big Rapids, MI
- 541-10427 - Paris, MI

- 541-10642 - Chicago, IL
- 541-20261 - Almond Corporation, Spring Lake, MI
- 542-20261 - Almond Products, Spring Lake, MI
- 541-21029 - Warren, MI
- 541-20954 - Welding Materials & Repairs, Sterling Heights, MI
- 542-20954 - Welding Materials & Repairs, Sterling Heights, MI
- 542 - Detroit, MI
- 542-10590 - Detroit, MI
- 542-10472 - Mt. Clemens, MI
- 542-10776 - Dearborn, MI
- 542-11725 - AM Specialties, Sterling Heights, MI
- 542-45751 - Roseville, MI
- 545 - Springdale, AR
- 552 - Easley, SC
- 553 - Lexington, KY
- 561 - Ocala, FL

## Shipping

**Manifest Number** - The manifest number (received on the 862) is processed into the RAN field and can be viewed at shipper entry time.

## Miscellaneous Information

Emergency orders are handled via EDI, fax and telephone. The supplier is paid from the paper invoice.

## Security

### Communication Method

Mark IV 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
OEM .....	
Company .....	
Auto Print .....	
Auto Process.....	
Auto 997.....	
Days To Archive.....	
F4=Prompt    F12=Cancel	

- Auto Print (Y/N) - Enter “Y” if using Auto Receive and Breakdown (scheduled through ACM), to perform an automatic Print after the Breakdown. Enter “N” if not using Auto Receive, or, if using Auto Receive and Breakdown, if the Print option is not to be run automatically after the Breakdown.
- Auto Process (Y/N) - Enter “Y” if using Auto Receive 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 Auto Receive, or, if using Auto Receive, 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 options to “split” a file received from Mark IV Automotive, and also when transmitting ASNs. The Identification Code file is used differently by different manufacturers.

Company Number	- xx
OEM Code	- IV
Plant ID	- Your Supplier ID
OEM ID	- Mark IV Automotive's DUNS Number (150148617)
Corporate ID	- Your DUNS Number
Remit to Duns Number	- Not used by Mark IV Automotive
VAT Code	- Tax ID
Transmission Mode	- P for production, T when testing 810
Smart Labels	- N
Pallet Staging	- N
Bar Code File Transfer	- N
Variable Unwrap Print	- Y or N
Automatic print of 997	- N
AutoMap	- Y

Errors that occur during the “split” that indicates 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).

## 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

Mark IV Automotive does not send model year. Therefore, the requirement and price files must be entered leaving the Model Year fields blank.

## **EDI Code File**

### **830 Type Codes**

- C - Firm
- D - Planning

### **830 Frequency Codes**

- M - Monthly
- W - Weekly

### **862 Type Codes**

- C - Firm

### **862 Frequency Codes**

- D - Discrete

## **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 Master - Special Processing**

Press F20 (Special Process) from the Requirement Master screen to display the special processing window.

## Special Processing Information

Load Past Due Req'ts from  
History? (Y/N/B/M) ..... \_

**Type of Processing (C/N) . N**

Ignore STD PAK for  
Load/MRP Build? (Y/N) .. \_

Competitor Part (C) or  
FBO Flag (B/F/J/E) ..... \_

Special Partial Week  
for current week (Y/N) .. Y

No Container Calculation  
for Part On Shipper (Y/N) \_

Partial Week With Sunday  
Dates (Y/N) ..... \_

Chrysler Special Processing for  
'B D' Requirements (B/L/S) ..... \_  
Remove Chrysler EDI 'B D'  
Reqs. prior to today (Y/N) ..... \_

Omit 830 planning req'ts in  
Shipping (Y/N) ..... Y

Pricing Based On Order Quantity  
Or Ship Quantity? (O/S) ..... \_

Override in Manual Req'ts Entry:  
Release Number and Date? (Y/N) .. \_

P.O. Number? (Y/N) ..... \_

Secondary OEM Code ..... \_

Type of Processing - Enter "N" (net) to create a shift exception.

## CUM Required Prior

Mark IV Automotive does not send CUM Required Prior. They send CUM Received, which is placed in the CUM Required Prior field. Therefore, it is not necessary to enter it manually before going live. The CUM Received that is transmitted overlays what was entered manually.

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 Mark IV Automotive manual requirement or while testing. To enter, access the Manual Requirements Entry screen and select a part or press F5.

## **Application Advice (824)**

The Application Advice menu is used to display, list, and purge the Application Advice (824) file. The Application Advice file reports errors of content in the file received from Mark IV Automotive, and indicates if a transmission was accepted with errors or rejected. The Split Status report, which is printed during the Split, identifies the transaction sets received by each company. During the Breakdown, all data received in the 824 file are placed in the universal Application Advice files VPX824A - VPX824H. When Application Advice data are no longer current, they may be purged. Access the Application Advice Menu through option 12, Application Advices, on the AutoMap main menu.

## **Receiving Advices (861s)**

The Receiving Advice (861) is a discrepancy report that notifies the supplier when ASN data are not the same as data recorded and accepted by Mark IV when the shipment is received. Discrepancies reported on the Receiving Advice are not processed into the Requirement or Load files. Adjustments must be made manually (when necessary) from the "Manual Requirement/Shipping Adjustments Menu" (RC8). When Receiving Advice data are received for a mapped trading partner, they are indicated on the Split Status Report which is printed when the Split is taken. When Receiving Advice data are no longer current, they may be purged. Access Receiving Advice information from option 13, Receiving Advices, on the AutoMap main menu.

# Electronic Invoices

## File Setup

### Destination Master File

Set up the following in the Destination Master File. Access the Destination Master file from the AutoRelease File Maintenance main menu:

- On the first screen, set the Print Invoices flag to “Y” and the Create Invoices flag to “Y.”
- On the third screen, enter currency code in the Funds Type field and set the One P.O. Per Invoice flag to “Y.”

SCD6300B		MAINTAIN DESTINATION MASTER FILE	
Company Number .....	KB	ENGINE COOLING, INC.	
Destination Number .....		150	
Name 1 .....	MARK IV	FOB .....	
Name 2 .....		Distributor Code ..	
Address 1 ..	455 E. 4TH STREET	Ford Dest Code .....	
Address 2 ..		ASN/DESADV (B/C/N/O/V/Y)	V
Address 3 ..		GM Msg/Temp Msg Code ...	/
City/State .	FLINT MI	GM Std Loc/Ford Rt Cd 2.	
Zip Code ...	48778	Carrier Preference .....	100
Country ....	USA	Route Code / HMRS (Y/N).	
Arrival/Ship Dates (A/S) .....	S	Honda Destination .....	
Delivery Travel Time (Hrs/Min)		Supplier Type (P/S) ....	
Delivery Travel Time (Days) ..		ASN Unit of Measure ....	EA
Available Ship Days (X = Select)		JIT Location (Y/N) .....	
S M X T X W X H X F X S		Bar Code Verif (Y/N/C/S)	N
Oth		Print Invoices (Y/N) ...	Y
Names:		Create Invoices (Y/N) ..	Y
		Payment Type: Coll	PP PPI
		Alt. Description...	
		Dealer Code .....	
F1=Help	F10=Delete	F12=Return	Cat Europe Ult Dest ....

## Machine Readable File

Set the Electronic Invoices flag to "Y" in the Destination Abbreviation Record of the Machine Readable file.

DESTINATION ABBREVIATION RECORD	
Company Number .....	KB
OEM Code .....	IV
Identification Number .....	553
Dock Location .....	
Destination Abbreviation ....	MARK
Destination Description .....	MARK IV
P O Destination .....	000000000
ERS Destination .....	(Y/N)
OEM Consideration .....	(Y/N)
Electronic Invoices .....	N (Y/N)
Line Set .....	N (Y/N)
Clear By Destination .....	N (Y/N)
Type of FBO .....	(M/S)
Chrysler PAB/Non-PAB Combine.	(Y/N)
Send Prev CUM on ASN/DESADV .	N (Y/N)
Exclude from APNAT calc .....	N (Y/N)
Place on Credit Hold .....	(Y/N)
Ship Direct .....	(Y/N)

## Invoice Maintenance

EDD7525A		INVOICE HEADER MAINTENANCE	
OEM: IV	Invoice Number: 112517	Record Status: O	
Company: KB	Shipper Number: 112517		
Customer Abbrev: MARK	Dest Abbrev....: MARK		
Ship To Cust #.: 150	Supplier ID....: 87676C		
Sold To Cust #.: 150	OEM ID.....:		
Dock Code.....:	Remit to ID....:		
	Remit to Name...: BREAKDOWN CENTER		
Invoice	Payment Terms...: NET 30		
Date: 10/23/15	Payment Method..: Coll: X PP: PPI:		
Ship	Candian GST Amt:		
Date: 10/23/15	Release Number..: 1403051800		
Time: 9:29	Carrier Abbrev..: CTNR		
Time Zone: CD	Carrier Name....: CENTRAL TRANSPORT		
	Conveyance Code: LT		
Credit memo? (Y/N):	FOB Destination: NORTHVILLE		
Invoice Type.....: 11	Remarks.....:		
	Pro Number.....:		

## Mandatory Fields

When sending electronic invoices, note that the fields listed below are mandatory.

### Invoice Header Screen

Invoice Number	-	Transmitted in the BIG 02.
Customer Abbrev	-	This value is not transmitted but is a required entry.
Dest Abbrev	-	The corresponding ID is received from the Machine Readable Destination file and transmitted in the N1 segment.
Ship Date	-	Transmitted in the DTM 02.
Invoice Date	-	Transmitted in the BIG 01.
Supplier ID	-	Transmitted in the N1 with an "SU" qualifier.
OEM ID	-	Transmitted in the ISA 06 and GS 03.

### Electronic Invoice Detail Screen

Customer Part #	-	Transmitted in the IT1 07.
Ship Quantity	-	Transmitted in the IT1 02.
PO Number	-	Transmitted in the BIG 04.
Unit Price	-	Transmitted in the IT1 04.

## Miscellaneous Charges

Miscellaneous charges are entered at shipper entry time or on the Invoice Charge Review screen. Access this screen by pressing F7 (Misc Charge) from the Invoice Detail Maintenance screen.

Valid Service Code values for the 810 SAC segment include the following:

- E620 - Metals Surcharge
- H550 - Fuel/Natural Gas Surcharge
- D230 - Freight Surcharge

EDD7540A		INVOICE CHARGE REVIEW			
Company:	KB	Cust Abbrev:	MARK	Invoice #:	112517
OEM:	IV	Dest Abbrev:	MARK	Purchase Order#:	
				Internal Part #:	10-85126
Service Code.....:				* ADD *	
Unit Price.....:					
Quantity.....:				Charge Type.....:	
Description.....:					
Memo (Y/N).....: N		Unit of Measure...:		Method of Handling:	
Tax Qualifier...:		Tax Rate:			
GST Account.....:		GST Rate:			
Options: 1=Select    4=Delete					
Opt Service	Unit Price	Quantity	Description		

## ASNS

### ASN Cancellation Procedure

If errors are identified on the ASN before Mark IV Automotive receives the shipment, the supplier may send a cancellation ASN (purpose code = 01) and retransmit the corrected ASN as an original (purpose code = 00).

### Mandatory Fields

#### ASN Header Maintenance Screen

- |              |   |   |
|--------------|---|---|
| ASN Purpose  | - | Transmitted in the BSN 01. Valid codes include:<br>O - Original 00<br>N - Cancellation 01 |
| Ship Date    | - | Transmitted in the DTM 02.  |
| Ship Time    | - | Transmitted in the DTM 03.  |
| Arrival Date | - | Transmitted in the DTM 02.  |
| Arrival Time | - | Transmitted in the DTM 03.  |
| Time Zone    | - | Transmitted in the DTM 04.  |

#### ID Numbers Screen

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



## **Reference Number Screen**

Conveyance Bill - Transmitted in the TD3 03.

## **ASN Detail Maintenance Screen**

Cust Part # - Transmitted in the LIN 03.

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

Ship Net - Transmitted in the MEA 03.

Ship Gross - Transmitted in the MEA 03.

CUM Shipped - Transmitted in the SN1 04.

ASN Unit/Mea - Transmitted in the SN1 03.

## **ASN Container Review Screen**

Container Description - Transmitted in the TD1 01.

# 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 Advanced Communication Module (ACM).

## 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 Autoliv EDIFACT practices. To view keywords used by Autoliv EDIFACT:

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).

## Create Invoices

Enter "Y" to create a GL/AR file which will be passed through the interface to the ERP package. Also, a hard copy, electronic invoice, or both for each shipper to this destination will be generated.