Introduction

Using Electronic Data Interchange (EDI)

How MACI's EDI Works

1. Michigan Automotive Compressor, Inc. (MACI) sends and receives EDI transactions via the G-International Services Value Added Network.

2. The supplier receives the Weekly Release (ANSI 830) via EDI. The Weekly Release is used as a firm and/or forecast document that provides information by part number. It contains requirements formatted into daily, weekly, or monthly buckets. The supplier uses the information from the Weekly Release to print Trading Partner Labels (TPL). These labels are affixed to the part containers in accordance with MACI's Packaging Guidelines. The production requirements are also to be used as shipment authorization. The length of the forecast may be shortened by the request of the supplier. Using information from the Weekly Release, the supplier prints the Container, Master and Mixed Labels.

3. The supplier sends the Functional Acknowledgments (ANSI 997) via EDI. The Functional Acknowledgment is a standard communications "handshake" verification. It is used to confirm that successful communication has occurred between the EDI translators of each pair of trading partners. MACI requires a Functional Acknowledgment in response to all outbound transmissions and provides it in response to all incoming transmissions.

4. As the trailer is being loaded (or staged), the supplier scans the bar code labels to generate the data required to create the Advance Ship Notice (ASN-ANSI 856) and Master Packing List (MPL). This step also verifies the scannability of each label.

5. Using the data collected by scanning, the supplier reconciles their shipment information to the Planned Load. This comparison identifies any order versus delivery discrepancies so they can be corrected prior to shipment.

6. Using the data collected by scanning, the supplier prints a Master Packing List conforming to MACI's standards. The Master Packing List is attached to the shipping papers for the load and accompanies the truck.

Introduction

Using Electronic Data Interchange (EDI)

How MACI's EDI Works

The 856 ASN number and the Master Packing List number are the same number identified as the ASN/SID number on the Master Packing List.

7. Using the data collected by scanning, the supplier sends an ASN (ANSI 856), via EDI, to MACI in conformance with MACI's standards. MACI transmits a Functional Acknowledgment (ANSI 997) and Application Advice (ANSI 824) in response to ASNs (ANSI 856) that are processed by our application system.

8. As the truck is unloaded, the barcodes are scanned for verification against the ASN. If discrepancies are found or if an ASN was not sent, the shipment will be received manually and MACI will require the supplier to implement counter measures to correct the problem.

Introduction

Using Electronic Data Interchange (EDI)

Key Contacts

To obtain answers to questions regarding MACI's EDI procedures please use the following guidelines:

Situation	Contact
- need an account - info on hardware/software options - assistance with MACI testing procedure	G-International Services * USA: 1-800-655-8865 Canada: 1-800-426-2255 Monday – Friday 8:30 am till 5:15 pm (Eastern time)
Customer Assistance - current transmission problems - failure to receive a functional acknowledgement - IBM Global Services password problem	G-International Services * USA: 1-877-326-6426 Canada: 1-800-426-2255 24 hours a day/7 days a week Account Support
- account information, after setup - need additional user IDs - access to new services	G-International Services * USA: 1-800-649-2729 Canada: 1-800-426-2255 Monday - Friday 8:00 am till 8:00 pm (Eastern time)

	Additional maintenance windows Are scheduled as needed, primarily during early Sunday morning hours to provide minimum impact
Software startup and function questions	Your software provider
ASN structure questions/Bar Code Label requirements questions/New supplier or trading partner startup	Your software provider
	Note MACI Supplier EDI technical contact Jim Hagey – hageyj@michauto.com Non-technical support – please contact your purchasing agent

.

Introduction

Using Electronic Data Interchange (EDI)

Implementation Steps

Overview To implement EDI with MACI, follow these steps:

1. Contact G-International Services for general assistance and to establish mailbox.

2. Choose software path.

3. Complete the MACI supplier testing process.

4. Call your MACI contact to go live, communicating with MACI using EDI.

G-International Services Network

G-International Services is MACI's exclusive Value Added Network. **G-International Services' Customer Enabling Center (CES)** may be reached at **(US) 1-800-655-8865 or (CAN) 1-416-773-7671** between the hours 8:30 - 5:15 Eastern Time, Monday through Friday, for new suppliers needing assistance or a solution to a problem with any of the following:

- General EDI Information
- Network account set up
- Network connectivity
- Customer support.

Implementation Steps

MACI Trading Partner File Information

MACI -- EDI Set-up Before transmitting EDI data, MACI must create a trading partner within MACI's systems. MACI Purchasing representatives will work with MACI Suppliers to perform this set-up. During set-up, a MACI IS EDI analyst will contact you to clarify the following information. This information may be obtained from your software provider.

		ASCII	EBCDIC
Example: Information	Character	Hex	Hex
1) Element Delimiter	*	2A	5C
2) Sub-element Delimiter	^	5E	5F
3) Segment Terminator	~	7E	A1

4) If you are not familiar with your company's 9-digit Duns number, please contact your accounting department for this information or contact Dun & Bradstreet directly at:
1-800-999-3867 (US)
1-800-463-6362 (Canada)
5) MACI's Duns number: 606360444

MACI transmits the data according to the above parameters.

Non-compliance

In the event that a supplier is not able to comply with these requirements, the supplier should contact MACI Production Control for an alternative.

Interchange Control Structures (ICS)

Standard Covered Interchange Control Structures, abbreviated "ICS".

Application Standards and Conventions
Interchange Control Structures are based upon *ANSI ASC X12 Interchange Control Version Number 00400.*

Mapping A list of the Interchange Control Structures business data elements and how they will be transmitted via EDI Standards is provided in the Standard Specifications section.

Exceptions / Clarifications
There are no exceptions to ANSI Standards in this Standard Description.

Schedule N/A

Specifications N/A

Back-Up Procedure N/A

Interchange Control Structures (ICS)

Business Purpose

The Interchange Control Structures are designed to satisfy the basic requirements for enveloping and routing of electronic business data.

FREQUENCY: N/A

TRANSMITTED FROM: N/A

TRANSMITTED TO: N/A

Interchange Control Structures (ICS)

Standard Specification Information

The following Standard Specifications consist of two sections:

1. The first section is an overview of the standard. It includes segment information as well as a visual depiction of the looping functionality.
Note
The Req. Des. for the first segment in a loop is also used for that corresponding loop.

2. The second section is the detailed specifications of the standard. The attributes columns within this second section are explained as follows:
- The first column: M = Mandatory, X = Conditional, O = Optional
- The second column:
ID = Identifier (a unique value from a predefined list from ANSI)
DT = Date
TM = Time
AN = Alphanumeric
R = Numeric with a variable decimal place
Nx = Numeric with "x" decimal places
- The third column: x/y, where
x = the minimum number of digits for this element and
y = the maximum number of digits for this element.

Interchange Control Structures (ICS)

Standard Specifications

Segment: ISA Interchange Control Header
Loop:
Level:
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	ISA01	I01	**Authorization Information Qualifier**	**M ID 2/2**

Valid codes listed below:
00 No Authorization Information Present (No Meaningful Information in I02)

Must Use	ISA02	I02	**Authorization Information**	**M AN 10/10**

MACI does not use this field. 10 empty spaces (or zeros) must be entered here as the ISA segment is space sensitive.

Must Use	ISA03	I03	**Security Information Qualifier**	**M ID 2/2**

Valid codes listed below:
00 No Security Information Present (No Meaningful Information in I04)

Must Use	ISA04	I04	**Security Information**	**M AN 10/10**

MACI does not use this field. 10 empty spaces (or zeros) must be entered here as the ISA segment is space sensitive.

Must Use	ISA05	I05	**Interchange ID Qualifier**	**M ID 2/2**

Valid codes listed below:
01 Duns (Dun & Bradstreet)
- To be used in conjunction with interconnects and IBM Global Services carbon copy procedure. MACI and IBM must give approval prior to use of this code.
ZZ Mutually Defined
- The standard qualifier for IBM Global Services mailboxes.

Must Use	ISA06	I06	**Interchange Sender ID**	**M AN 15/15**

- This is the senders account ID and should be formatted as follows:
-If ISA05 = 01
- Senders DUNS Number.
-If ISA05 = ZZ
- Senders Account ID, followed by 3 spaces, then senders User ID.
- MACI suppliers should obtain their Account and User ID's from IBM Global Services.
- MACI must approve data in this field that is not an IBM Global Services Account & User ID.

Must Use	ISA07	I05	**Interchange ID Qualifier**	**M ID 2/2**

Valid codes listed below:
01 Duns (Dun & Bradstreet)
- To be used in conjunction with interconnects and IBM Global Services carbon copy procedure. MACI and IBM must give approval prior to use of this code.
ZZ Mutually Defined
- The standard qualifier for IBM Global Services mailboxes.

Must Use	ISA08	I07	**Interchange Receiver ID**	**M AN 15/15**

- This is the receivers account ID and should be formatted as follows:
-If ISA07 = 01
- Receivers DUNS Number.
-If ISA07 = ZZ

Interchange Control Structures (ICS)

Standard Specifications

- Receivers Account ID, followed by 3 spaces, then receivers User ID.
- MACI suppliers should obtain their Account and User ID's from IBM Global Services.
- MACI must approve data in this field that is not an IBM Global Services Account & User ID.

	Ref. Des.	Data Element	Name	Attributes
Must Use	ISA09	I08	**Interchange Date**	**M DT 6/6**

Date expressed as YYMMDD

Must Use	ISA10	I09	**Interchange Time**	**M TM 4/4**

Time expressed in 24-hour clock time as HHMM

Must Use	ISA11	I10	**Interchange Control Standards Identifier**	**M ID 1/1**

Valid codes listed below:
U U.S. EDI Community of ASC X12, TDCC, and UCS

Must Use	ISA12	I11	**Interchange Control Version Number**	**M ID 5/5**

Valid codes listed below:
00400 Standard Issued as ANSI X12.5-1997

Must Use	ISA13	I12	**Interchange Control Number**	**M N0 9/9**

A control number assigned by the interchange sender

Must Use	ISA14	I13	**Acknowledgment Requested**	**M ID 1/1**

Valid codes listed below:
0 No Acknowledgment Requested

Must Use	ISA15	I14	**Usage Indicator**	**M ID 1/1**

Valid codes listed below:
P Production Data
T Test Data
- Test data must be sent to the test mailbox. If test data is sent to the production mailbox the data will be rejected, resulting in an 824 (TR) being returned to the supplier.

Must Use	ISA16	I15	**Component Element Separator**	**M AN 1/1**

The component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator.

Segment: GS **Functional Group Header**

Loop:
Level:
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	GS01	479	**Functional Identifier Code**	**M ID 2/2**

Valid codes listed below:

Interchange Control Structures (ICS)

Standard Specifications

AG Application Advice (824)
FA Functional Acknowledgment (997)
PS Planning Schedule with Release Capability (830)
SH Ship Notice/Manifest (856)

	Ref. Des.	Data Element	Name	Attributes
Must Use	GS02	142	Application Sender's Code M	AN 2/15

The senders' code should be the DUNS number of the senders company. MACI's DUNS number is 606360444. If your company does not have a DUNS number, contact MACI.

	Ref. Des.	Data Element	Name	Attributes
Must Use	GS03	124	Application Receiver's Code	M AN 2/15

The receiver's code should be the DUNS number of the receiving company. MACI's DUNS number is 606360444. If your company does not have a DUNS number, contact MACI.

Must Use	GS04	373	Date	M DT 8/8

Date expressed as CCYYMMDD

Must Use	GS05	337	Time	M TM 4/4

Time expressed in 24-hour clock time as HHMM

Must Use	GS06	28	Group Control Number	M N0 1/9

Assigned number originated and maintained by the sender

Must Use	GS07	455	Responsible Agency Code	M ID 1/2

Code used in conjunction with Data Element GS08 to identify the issuer of the standard. Valid codes listed below:
X Accredited Standards Committee X12

Must Use	GS08	480	Version / Release / Industry Identifier Code	M AN 1/12

This code indicates the version, release and sub release of the EDI standard being used, including the GS and GE segments. Positions 1-3 are the version number; positions 4-6 are the release and sub release, level of the version.
Valid codes listed below:
004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Segment: GE Functional Group Trailer
Position: 030
Loop:
Level:
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	GE01	97	Number of Transaction Sets Included	M N0 1/6

Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element

Interchange Control Structures (ICS)

Standard Specifications

	Ref. Des.	Data Element	Name	Attributes
Must Use	GE02	28	**Group Control Number**	M N0 1/9

Assigned number originated and maintained by the sender

Segment: IEA **Interchange Control Trailer**

Loop:
Level:
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	IEA01	I16	**Number of Included Functional Groups**	M N0 1/5

A count of the number of functional groups included in an interchange

Must Use	IEA02	I12	**Interchange Control Number**	M N0 9/9

A control number assigned by the interchange sender

Interchange Control Structures (ICS)

Operating Procedures

In order for MACI to successfully receive data from a supplier the ICS must be correct. The supplier needs to ensure that their ISA and GS information is populated correctly when they are sending data to MACI.

Application Advice (824)

Transaction Description

Chapter Contents This chapter contains information and procedures for using MACI's Application Advice. Transaction specifications are included for further clarification.

Standards and Conventions
The 824 set is based upon the *ANSI ASC X12 Version Release 004010* document.

Schedule The 824 should be transmitted within 15 minutes of receipt of ASN containing errors into MACI's application system during production/operating hours.

Specifications In transmitting the Application Advice, a User Message Class (MSGUCLS) of "824" must be present to transmit the data to the seller's mailbox on the IBM Global Services Network. It is possible for MACI to transmit multiple Application Advices within one envelope. This means that there may be multiple transaction sets (ST-SE header/trailer segments) within one interchange envelope (ISA-IEA header/trailer segments).

Back-Up Procedure In the event of a failure of Electronic Data Interchange, it is the responsibility of the sending party to transmit the contents of any pending Transmission to the receiving party using a method of non-EDI transmission which is timely, reasonable, and appropriate under the circumstances.

Application Advice (824)

Business Purpose

The MACI Application Advice (ANSI 824) will be used by MACI to improve the accuracy of incoming transactions by providing immediate feedback to our trading partners regarding the presence of any errors detected by our system. The 824 responds to EDI transactions sent to MACI.

Example: ASN (ANSI 856) An 824 will be transmitted in response to transactions containing errors sent to MACI that reach our application system. Each 824 transaction can be one of two possible responses:
1. Transaction is accepted with errors present.
2. Transaction is rejected due to errors. This result will require repair and retransmission of the original document.

FREQUENCY: Immediately following and in response to each incoming transaction received which contains errors.

TRANSMITTED FROM: MACI

TRANSMITTED TO: Supplier (originator)

Application Advice (824)

Transaction Specification Information

The following Transaction Specifications consist of two sections:

1. The first section is an overview of the transaction. It includes segment information as well as a visual depiction of the looping functionality.
Note
The Req. Des. for the first segment in a loop is also used for that corresponding loop.

2. The second section is the detailed specifications of the transaction. The attributes columns within this second section are explained as follows:
- The first column: M = Mandatory, X = Conditional, O = Optional
- The second column:

ID = Identifier (a unique value from a predefined list from ANSI)
DT = Date
TM = Time
AN = Alphanumeric
R = Numeric with a variable decimal place
Nx = Numeric with "x" decimal places
- The third column: x/y, where

x = the minimum number of characters for this element and
y = the maximum number of characters for this element.

Application Advice (824)

Transaction Specifications

Functional Group ID = AG

Heading:

	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
Must Use	ST	Transaction Set Header	M	1	
Must Use	BGN	Beginning Segment	M	1	
	Begin Loop ID - N1				1
Must Use	N1	MACI Ordering Plant Location	M	1	
	End Loop ID – N1				
	Begin Loop ID – N1				1
Must Use	N1	Supplier Name	M	1	
Must Use	N3	Supplier Address	M	1	
Must Use	N4	Supplier Geographic Location	M	1	
Must Use	PER	Supplier Contact	M	1	
	End Loop ID – N1				
	Begin Loop ID – N1				1
	N1	Ship To Location	O	1	
	End Loop ID – N1				

Detail:

	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
	Begin Loop ID – OTI				>1
Must Use	OTI	Original Transaction Identification	M	1	
	Begin Loop ID – TED				>1
Must Use	TED	Technical Description	M	1	
	NTE	Special Instruction	O	>1	
	End Loop ID – TED				
	End Loop ID – OTI				

Summary:

	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
Must Use	SE	Transaction Set Trailer	M	1	

Application Advice (824)

Transaction Specifications

Segment: ST **Transaction Set Header**
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST01	143	**Transaction Set Identifier Code**	**M ID 3/3**

Valid codes are listed below
824 Application Advice

Must Use	ST02	329	**Transaction Set Control Number**	**M AN 4/9**

This number will be unique (within a transaction set) and ascending. It may be sequential.

Segment: BGN **Beginning Segment**
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	BGN01	353	**Transaction Set Purpose Code**	**M ID 2/2**

Valid codes are listed below
00 Original

Must Use	BGN02	127	**Application Advice Number**	**M AN 1/8**

Application Advice Numbers are unique by transaction type code, OTI10. The
Application Advice Number will not repeat within a year.

Must Use	BGN03	373	**Create Date**	**M DT 8/8**

Date expressed as CCYYMMDD

Must Use	BGN04	337	**Create Time**	**M TM 4/4**

Time expressed in 24-hour clock time as HHMM

Segment: N1 **MACI Ordering Plant Location**
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

Application Advice (824)

Transaction Specifications

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	**Entity Identifier Code**	**M ID 2/2**

Valid codes are listed below
16 Plant

	Ref. Des.	Data Element	Name	Attributes
Must Use	N103	66	**Identification Code Qualifier**	**M ID 1/2**

Valid codes are listed below
6 Plant Code

Must Use	N104	67	**MACI Plant ID**	**M AN 3/3**

This is the MACI code number for our logistical company.
MAC = Dearing Road location

Segment: N1 Supplier Name
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	**Entity Identifier Code**	**M ID 2/2**

Valid codes are listed below
SU Supplier/Manufacturer

Must Use	N102	93	**Supplier Name**	**M AN 1/35**
Must Use	N103	66	**Supplier Number Qualifier**	**M ID 1/2**

Valid codes are listed below
92 Assigned by Buyer or Buyer's Agent

Must Use	N104	67	**Supplier Number**	**M AN 8/8**

An 8-digit code assigned by MACI to identify a specific supplier

Segment: N3 Supplier Address
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N301	166	**Address Information - 1**	**M AN 1/30**
	N302	166	**Address Information - 2**	**O AN 1/30**

Application Advice (824)

Transaction Specifications

Segment: N4 **Supplier Geographic Location**
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N401	19	City Name	M AN 2/30
Must Use	N402	156	State or Province Code	M ID 2/2
Must Use	N403	116	Postal Code	M ID 3/10

Segment: PER **Supplier Contact**
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	PER01	366	Contact Function Code	M ID 2/2

Valid codes are listed below
SU Supplier Contact

	Ref. Des.	Data Element	Name	Attributes
Must Use	PER02	93	Supplier Contact Name	M AN 1/30

Segment: N1 **Ship To Location**
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	Entity Identifier Code	M ID 2/2

Valid codes are listed below
ST Ship To

	Ref. Des.	Data Element	Name	Attributes
Must Use	N102	93	Ship to Code	M AN 2/8

This is the code assigned by MACI for the ship to location from the corresponding 856.

Segment: OTI **Original Transaction Identification**
Loop: OTI Mandatory

Application Advice (824)

Transaction Specifications

Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	OTI01	110	Application Acknowledgment Code	M ID 1/2

Only resend the transaction set when this element (OTI01) indicates a reject (TR). Valid codes are listed below:
TE Transaction Set Accept with Error
TR Transaction Set Reject

	Ref. Des.	Data Element	Name	Attributes
Must Use	OTI02	128	Original Document Number Qualifier	M ID 2/3

Valid codes are listed below:
SI Shipper's Identifying Number for Shipment (SID)
- "SI" indicates this 824 is in response to an ASN (856)
TN Transaction Reference Number

	Ref. Des.	Data Element	Name	Attributes
Must Use	OTI03	127	Original Document Number	M AN 1/8

- For an ASN, this will be the ASN Number (BSN02) from the original document.

	Ref. Des.	Data Element	Name	Attributes
Must Use	OTI06	373	Original Create Date	M DT 8/8

- This date applies to the document that is in error. Date expressed as CCYYMMDD.
- If a MACI supplier sends an original and replacement ASN (both with the same ASN number), the date (OTI06) and time (OTI07) will allow the supplier to link the appropriate 824 and ASN.

	Ref. Des.	Data Element	Name	Attributes
Must Use	OTI07	337	Original Create Time	M TM 4/4

This time applies to the document that is in error. Time expressed in 24-hour clock time as HHMM.

	Ref. Des.	Data Element	Name	Attributes
Must Use	OTI10	143	Transaction Set Identifier Code	M ID 3/3

856 Ship Notice/Manifest

Segment: TED Technical Error Description
Loop: TED Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	TED01	647	Application Error Condition Code	M ID 1/3

Valid codes are listed below
ZZZ Mutually Defined

	Ref. Des.	Data Element	Name	Attributes
Must Use	TED02	3	Error Description	M AN 1/60

- If there was an error, there will be an error message. For example, "unit of measure invalid".

Application Advice (824)

Transaction Specifications

TED07 724		**Error Data**	**O AN 1/80**

- This field will contain the actual data that was in error if available. For example: Error Data = BZ

Segment: NTE Special Instruction
Loop: TED Mandatory
Level: Detail
Usage: Optional
Max Use: 100
Notes: This segment will be provided only if data is available.
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	NTE01	363	Note Reference Code	M ID 3/3

Valid codes are listed below
ADD Additional Information

	Ref. Des.	Data Element	Name	Attributes
Must Use	NTE02	352	Reference Data Description	M AN 1/80

This field may contain additional information to help identify the data in error
Examples:
Error Description (TED02) = unit of measure invalid
Error Data (TED03) = BZ
Reference Data (NTE02) = MC23456-1234 (MACI part number associated with 'invalid unit of measure')

Segment: SE Transaction Set Trailer
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SE01	96	Number of Included Segments	M N0 1/10
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9

-Must be the same as value sent in ST02.

Application Advice (824)

Operating Procedures

Replacement Logic:
MACI will not replace the 824 document. The purpose code is always 00, original.

Retransmission:
MACI can retransmit the 824 document. Retransmission will only occur when the supplier requests that MACI resend the EDI document. This is typically because the supplier had some problem in the translation processing.
• A retransmitted document can be overlaid based upon a match of Application Advice Number, BGN02.

Weekly Release (830)

Transaction Description

Transaction Covered

Planning Schedule with Shipping Schedule -- or Weekly Release (Transaction Set 830), abbreviated "PS".

Application Standards and Conventions

The 830 set is based upon the *ANSI ASC X12 Version Release 004010* document.

Mapping A list of the Weekly Release business data elements and how they are transmitted via EDI Standards is provided in the Transaction Specifications section.

Exceptions / Clarifications There are no Exceptions to ANSI Standards in this Transaction Description.

Schedule Weekly Release is transmitted once every seven calendar days. The seller should notify the buyer no later than 12:00 noon of the following production day if the seller has not received the Weekly Release.

Specifications **In transmitting the Weekly Release, a User Message Class (MSGUCLS) of "830" must be present to transmit the data to the seller's mailbox. It is possible for MACI to transmit multiple Weekly Releases within one envelope. This means that there may be multiple transaction sets (ST-SE header/trailer segments) within one interchange envelope (ISA-IEA header/trailer segments).**

Back-Up Procedure In the event of a failure of Electronic Data Interchange, it is the responsibility of the sending party to transmit the contents of any pending transmission to the receiving party using a method of non-EDI transmission which is timely, reasonable, and appropriate under the circumstances.

Weekly Release (830)

Business Purpose

The MACI Weekly Release (ANSI 830) transaction set is used as a ship schedule and forecast document that provides information by part number.

- Forecast information and quantities are subject to change or cancellation by MACI.
- MACI will use the 830 as both weekly shipping requirements and weekly production forecast:

1. Weekly shipping requirements
- **Those weekly buckets having a value of 'C' in the FST02 segment should be used by the supplier as shipment authorization.**
- **Suppliers should ship to these quantities unless notified by MACI by other means**.

2. Production Forecast
- Those Weekly buckets having a value of 'D' in the FST02 segment should be viewed by the supplier as forecasts for planning purposes only.
- Will be used to provide anticipated production quantities. Suppliers should use this data for material, production and capacity planning.
- Provides information by part number for up to 26 weeks. Will usually be transmitted by noon on the first day of the business week

Weekly Release (830)

Transaction Specification Information

The following Transaction Specifications consist of two sections:

1. The first section is an overview of the transaction. It includes segment information as well as a visual depiction of the looping functionality.

Note
The Req. Des. for the first segment in a loop is also used for that corresponding loop.

2. The second section is the detailed specifications of the transaction. The attributes columns within this second section are explained as follows:
- The first column: M = Mandatory, X = Conditional, O = Optional
- The second column:

ID = Identifier (a unique value from a predefined list from ANSI)

DT = Date

TM = Time

AN = Alphanumeric

R = Numeric with a variable decimal place

Nx = Numeric with "x" decimal places
- The third column: x/y, where

x = the minimum number of characters for this element and

y = the maximum number of characters for this element.

Weekly Release (830)

Transaction Specifications
Functional Group ID – PS

Heading:

	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
Must Use	ST	Transaction Set Header	M	1	
Must Use	BFR	Beginning Segment	M	1	
Must Use	DTM	Create Date	M	1	
		Begin Loop ID – N1			1
Must Use	N1	MACI Ordering Location	M	1	
Must Use	N2	MACI Corporate Name	M	1	
Must Use	PER	MACI Contact	M	1	
		End Loop ID – N1			
		Begin Loop ID – N1			1
Must Use	N1	Supplier Name	M	1	
	N3	Supplier Address	O	1	
	N4	Supplier Geographic Location	O	1	
	PER	Supplier Contact	O	1	
		End Loop ID – N1			

Detail:

	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
		Begin Loop ID – LIN			>1
Must Use	LIN	Item Identification	M	1	
Must Use	UIT	Unit Detail	M	1	
		Begin Loop ID – N1			1
Must Use	N1	Ship To Location	M	1	
Must Use	N3	Ship To Address	M	1	
Must Use	N4	Ship To Geographical Location	M	1	
		End Loop ID – N1			
		Begin Loop ID – FST			>1
Must Use	FST	Forecast Schedule	M	1	
		End Loop ID – FST			
		End Loop ID – LIN			

Summary:

	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
Must Use	CTT	Transaction Totals	M	1	
Must Use	SE	Transaction Set Trailer	M	1	

Weekly Release (830)

Transaction Specifications

Segment: **ST** **Transaction Set Header**
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3

Valid codes are listed below
830 Planning Schedule with Shipping Schedule

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9

This number will be unique (within a transaction set) and ascending. It may be sequential.

Segment: **BFR** **Beginning Segment for Planning Schedule**
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	BFR01	353	Transaction Set Purpose Code	M ID 2/2

Valid codes listed below
05 Replace – MACI will always send 830s as replacement documents.

	Ref. Des.	Data Element	Name	Attributes
Must Use	BFR02	127	Reference Identification	M AN 1/14

This number links all line items (LIN loops) on this 830 together.

	Ref. Des.	Data Element	Name	Attributes
Must Use	BFR04	675	Schedule Type Qualifier	M ID 2/2

Valid codes listed below
SH – Schedule is requested ship date based
DL – schedule is required delivery date based
The qualifier will be used for all 830's.

	Ref. Des.	Data Element	Name	Attributes
Must Use	BFR05	676	Schedule Quantity Qualifier	M ID 1/1

Valid codes listed below
A – Actual delivery quantities

	Ref. Des.	Data Element	Name	Attributes
Must Use	BFR06	373	Forecast Start Date	M DT 8/8

Date expressed as CCYYMMDD

	Ref. Des.	Data Element	Name	Attributes
Must Use	BFR08	373	Date Generated	M DT 8/8

Date expressed as CCYYMMDD

Weekly Release (830)

Transaction Specifications

Segment: **DTM** Create Date
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM01	374	Date/Time Qualifier-Create	M ID 3/3

Valid codes listed below
167 Most Recent Revision (or Initial Version)

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM02	373	Create Date	M DT 8/8

This is the date this document was created. Date expressed as CCYYMMDD.

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM03	337	Create Time	M TM 4/4

This is the time this document was created. Time expressed in 24-hour clock
time as HHMM.

Segment: **N1** MACI Ordering Plant Location
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	Plant Name Qualifier	M ID 2/2

Valid codes listed below
16 Plant

	Ref. Des.	Data Element	Name	Attributes
Must Use	N102	93	Plant Name	M AN 1/35

	Ref. Des.	Data Element	Name	Attributes
Must Use	N103	66	MACI Plant ID Qualifier	M ID 1/2

Valid codes listed below
98 Purchasing Office

	Ref. Des.	Data Element	Name	Attributes
Must Use	N104	67	MACI Plant ID	M AN 3/3

This is the MACI code number for the logistical company.
For example: (May not be an all-inclusive list.)
MAC = MACI Dearing Rd. location

Segment: **PER** MACI Contact
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory

Weekly Release (830)

Transaction Specifications

Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	PER01	366	Contact Code	M ID 2/2

Valid codes listed below
BD Buyer Name or Department

	Ref. Des.	Data Element	Name	Attributes
Must Use	PER02	93	MACI Planner Name	M AN 1/35

Segment: N1 Supplier Name
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	Supplier Identifier Code	M ID 2/2

Valid codes listed below
SU Supplier/Manufacturer

	Ref. Des.	Data Element	Name	Attributes
Must Use	N102	93	Supplier Name	M AN 1/35

	Ref. Des.	Data Element	Name	Attributes
Must Use	N103	66	Supplier Identification Code Qualifier	M ID 1/2

Valid codes listed below
92 Assigned by Buyer or Buyer's Agent

	Ref. Des.	Data Element	Name	Attributes
Must Use	N104	67	Supplier Number	M AN 3/8

A 3 to 9-character code supplied by MACI to identify a specific supplier.

Segment: N3 Supplier Address
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
	N301	166	Supplier Address - 1	M AN 1/30

Supplier street address - 1

	Ref. Des.	Data Element	Name	Attributes
	N302	166	Supplier Address - 2	O AN 1/30

Supplier street address - 2

Weekly Release (830)

Transaction Specifications

Segment: N4 Supplier Geographic Location
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
	N401	19	City Name	M AN 2/30

Supplier's city name

	Ref. Des.	Data Element	Name	Attributes
	N402	156	State or Province Code	M ID 2/2

Supplier state or province name

| | N403 | 116 | Postal Code | M ID 3/10 |

Supplier zip or postal code

| | N404 | 26 | Country Code | M ID 2/3 |

Supplier Country Code

Segment: PER Supplier Contact
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	PER01	366	Supplier Contact Code	M ID 2/2

Valid codes listed below
SU Supplier Contact

| | PER02 | 93 | Supplier Contact Name | M AN 1/30 |

Segment: LIN Item Identification
Loop: LIN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	LIN02	235	Mfg Base Part Number Qualifier	M ID 2/2

Valid codes listed below
BP Buyer's Part Number

| | LIN03 | 234 | Mfg Base Part Number | M AN 1/29 |

Weekly Release (830)

Transaction Specifications

Must Use   **LIN06** **235**   **Part Description Qualifier**   **M ID 2/2**
Valid codes listed below
PD Part Number Description

Must Use   **LIN07** **234**   **Part Description**   **M AN 1/30**

Must Use   **LIN08** **235**   **Purchase Order Qualifier**   **M ID 2/2**
Valid codes listed below
PO Purchase Order

Must Use   **LIN09** **234**   **Purchase Order**   **M AN 1/10**
This is the purchase order under which the parts are to be shipped.

Segment: **UIT** Unit Detail

Loop: LIN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**UIT01**	**C001**	**Composite Unit of Measure**	**M**

Must Use   **C00101** **355**   **Unit or Basis for Measurement Code**   **M ID 2/2**
Refer to ANSI guidelines for a list of valid codes

Segment: **N1** Ship To Location

Loop: N1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code**	**M ID 2/2**

Valid codes are listed below
ST Ship To

Must Use   **N102**   **93**   **Ship To Name**   **M AN 1/35**

Must Use   **N103**   **66**   **Ship To Code Qualifier**   **M ID 1/2**
Valid Code Listed Below
92 Assigned by Buyer or Buyer's Agent

Must Use   **N104**   **67**   **Ship To Code**   **M AN 2/8**
This is the code assigned by MACI for this ship to location

Weekly Release (830)

Transaction Specifications

Segment: $N3$ **Ship To Address**
Loop: N1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N301	166	Ship To Address 1	M AN 1/30
	N302	166	Ship To Address 2	O AN 1/30

Segment: $N4$ **Ship To Geographic Location**
Loop: N1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N401	19	Ship To City	M AN 2/30
Must Use	N402	156	Ship To State or Province Code	M ID 2/2
Must Use	N403	116	Ship To Postal Code	M ID 3/10
Must Use	N404	26	Ship To Country Code	M ID 2/3

Segment: FST **Forecast Schedule**
Loop: FST Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	FST01	380	Quantity	M R 1/15
Must Use	FST02	680	Forecast Qualifier	M ID 1/1

Valid codes are listed below. Only one Forecast Qualifier can be used per time bucket.
C Firm
- Supplier should use these as shipping schedules
D Planning
- This will be a forecast of projected future demand.

	Ref. Des.	Data Element	Name	Attributes
Must Use	FST03	681	Forecast Timing Qualifier	M ID 1/1

Valid codes are listed below:

Weekly Release (830)

Transaction Specifications

C Daily
W Weekly Bucket (Monday through Sunday)

Must Use   **FST04** **373**   **Date-Period Start**   **M DT 8/8**
- This is the forecast start date.
- Beginning date of period
- Weekly periods are calculated sequentially always starting on a Monday.
- Date expressed as CCYYMMDD.

                   FST08 **235**   **Release Number Qualifier**   **O ID 2/2**
Valid codes listed below
RE Release Number

                   FST09 **234**   **Release Number**   **O AN 1/10**
This is the release number under which the parts are to be shipped.

Segment: CTT Transaction Totals

Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	CTT01	354	**Number of Line Items**	**M N0 1/6**

The accumulation of the number of LIN segments.

Must Use	CTT02	347	**Hash Total**	**M R 1/10**

Sum of the values of the quantities (FST01) for each segment.

Segment: SE Transaction Set Trailer

Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SE01	96	**Number of Included Segments**	**M N0 1/10**
Must Use	SE02	329	**Transaction Set Control Number**	**M AN 4/9**

Weekly Release (830)

Operating Procedures

Replacement Logic:
MACI sends the 830 as a replacement document. The 830 purpose code transmitted in the BFR01 element is always 05, replace. A document may be replaced for various reasons, including replacing an error in a previous document or issuing a new weekly release that replaces the previous weekly release. Supplier systems should have the capability to compare successive incoming Weekly Releases and replace items that are identical for change points listed below. Replacement of items from the new 830 should be based upon a match of:
- MACI Plant ID, N104
- Manufacturing Base Part Number, LIN03
- Ship To Code, N104

Usually an 830 consists of a full range of supplier's parts, but it could be a sub-set of supplier parts.

Retransmission:
MACI can retransmit the 830 document also. Retransmission will only occur when the supplier requests that MACI resend the EDI document. This is typically because the supplier had some problem in the translation processing.
- A retransmitted document can be overlaid based upon the same logic as the replacement logic above.

Advance Ship Notice (856)

Transaction Description

Transaction Covered
Advance Ship Notice/Manifest (Transaction Set 856), abbreviated "SH".

Application Standards and Conventions
The 856 set is based upon the *ANSI ASC X12 Version Release 004010* document.

Mapping A list of the Advance Ship Notice business data elements and how they are transmitted via EDI Standards is provided in the "Transaction Specifications".

Exceptions / Clarifications There are no Exceptions to ANSI Standards in this Transaction Description.

Schedule The ASN shall be transmitted to the buyer within the specified time window. MACI will send Functional Acknowledgements (997) for all ASNs and Application Advices (824) for ASNs containing errors.

Specifications In transmitting the Advance Ship Notice, a User Message Class (MSGUCLS) of "856" must be present to transmit the data to the buyer's/seller's mailbox.

Back-Up Procedure In the event of a failure of Electronic Data Interchange, it is the responsibility of the sending party to transmit the contents of any pending transmission to the receiving party using a method of non-EDI transmission which is timely, reasonable, and appropriate under the circumstances.

Advance Ship Notice (856)

Business Purpose

The MACI Advance Ship Notice (ANSI 856) transaction set provides detailed information about the contents of a specific shipment. It is usually created with the assistance of automatic identification devices. The Advance Ship Notice (ASN) plays an important role in the receiving and payment process.

Inbound to MACI
FREQUENCY: Immediately following the departure of each shipment.

TRANSMITTED FROM: Parts Suppliers,
Raw Material Suppliers,

TRANSMITTED TO: MACI

Outbound from MACI
Outbound copies are only sent under the following conditions:

1. Supplier has requested a copy of ASNs to support MACI business requirements.

FREQUENCY: Upon recognition of a valid ASN and request from supplier.

TRANSMITTED FROM: MACI

TRANSMITTED TO: Suppliers

Advance Ship Notice (856)

Transaction Specification Information

The following Transaction Specifications consist of two sections:

1. The first section is an overview of the transaction. It includes segment information as well as a visual depiction of the looping functionality.

Note
The Req. Des. for the first segment in a loop is also used for that corresponding loop.

2. The second section is the detailed specifications of the transaction. The attributes columns within this second section are explained as follows:

- The first column: M = Mandatory, X = Conditional, O = Optional

- The second column:
ID = Identifier (a unique value from a predefined list from ANSI)
DT = Date
TM = Time
AN = Alphanumeric
R = Numeric with a variable decimal place
Nx = Numeric with "x" decimal places

- The third column: x/y, where
x = the minimum number of characters for this element and
y = the maximum number of characters for this element.

Advance Ship Notice (856)

Transaction Specifications

Functional Group ID=SH

Heading:

	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
Must Use	ST	**Transaction Set Header**	M	1	
Must Use	BSN	Beginning Segment for Ship Notice	M	1	
Must Use	DTM	Shipment Date	M	1	

Detail:

	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
		Begin Loop ID – HL1			1
Must Use	HL	Shipment Hierarchical Level	M	1	
Must Use	TD1	Carrier Details (Quantity and Weight)	M	1	
Must Use	TD5	Carrier Details (SCAC)	M	1	
Must Use	TD3	Carrier Details (Equipment)	M	1	
Must Use	REF	BOL Number	M	1	
Must Use	N1	MACI Ordering Plant Location	M	1	
Must Use	N1	Ship To Location	M	1	
Must Use	N1	Ship From Supplier Location	M	1	
		Begin Loop ID – HL2			>1
Must Use	HL	Tare/Pallet Hierarchical Level	M	1	
Must Use	LIN	Tare/Pallet Identification	M	1	
Must Use	REF	Master/Mixed Label S/N	M	1	
		Begin Loop ID – HL3			>1
Must Use	HL	Item Hierarchical Level	M	1	
Must Use	LIN	Item Identification	M	1	
Must Use	SN1	Item Detail (Shipment)	M	1	
Must Use	REF	Container Label S/N	M	1	
		End Loop ID – HL3			
		End Loop ID – HL2			
		End Loop ID – HL1			

Summary:

	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
Must Use	CTT	Transaction Totals	M	1	
Must Use	SE	Transaction Set Trailer	M	1	

Advance Ship Notice (856)

Transaction Specifications

Segment: ST Transaction Set Header
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3

856 Ship Notice/Manifest

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9

This number must be unique for this transaction set. It may not be repeated within a calendar year. A duplicate number will cause the transaction to be rejected.

Segment: BSN Beginning Segment for Ship Notice
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	BSN01	353	Transaction Set Purpose Code	M ID 2/2

Valid codes listed below
00 Original
01 Cancellation
05 Replace

	Ref. Des.	Data Element	Name	Attributes
Must Use	BSN02	396	ASN Number	M AN 6/30

- The MACI supplier creates this number. For an original ASN (BSN01=00), the ASN Number cannot be repeated within a year.
- This number must consist of characters from the ranges 0 thru 9, A thru Z, or a thru z.

	Ref. Des.	Data Element	Name	Attributes
Must Use	BSN03	373	Create Date	M DT 8/8

This is the date the ASN was created. Date expressed as CCYYMMDD.

	Ref. Des.	Data Element	Name	Attributes
Must Use	BSN04	337	Create Time	M TM 4/4

This is the time the ASN was created. Time expressed in 24-hour clock time as HHMM.

Advance Ship Notice (856)

Transaction Specifications

Segment: DTM Shipment Date
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3

Valid codes are listed below
011 Shipped

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM02	373	Ship Date	M DT 8/8

This is the actual ship date. Date expressed as CCYYMMDD.

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM03	337	Ship Time	M TM 4/4

This is the actual ship time. Time expressed in 24-hour clock time as HHMM.

Segment: HL Shipment Hierarchical Level
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	HL01	628	Hierarchical ID Number Shipment Level	M AN 1/12

"1" Shipment Level

	Ref. Des.	Data Element	Name	Attributes
Must Use	HL03	735	Hierarchical Level Code - Shipment level	M ID 1/2

Valid codes listed below
S Shipment

Segment: TD1 Carrier Details (Quantity and Weight)
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1

Advance Ship Notice (856)

Transaction Specifications

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	TD106	187	Weight Qualifier	M ID 1/2

N Actual Net Weight

	Ref. Des.	Data Element	Name	Attributes
Must Use	TD107	81	Weight	M R 1/10

This represents the total net weight for this ASN and should be rounded to the nearest whole unit. This value should include the product weight only. Any weight associated with packaging should not be included in this value.

	Ref. Des.	Data Element	Name	Attributes
Must Use	TD108	355	Unit or Basis for Measurement Code	M ID 2/2

Valid codes are listed below:
01 Actual Pounds
50 Actual Kilograms

Segment: **TD5** Carrier Details (SCAC)

Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	TD502	66	SCAC Code Qualifier	M ID 1/2

Valid Code listed below
2 Standard Carrier Alpha Code (SCAC)

	Ref. Des.	Data Element	Name	Attributes
Must Use	TD503	67	Identification Code - SCAC Code	M AN 4/4

- Standard Carrier Alpha Code (SCAC) of carrier.

Segment: **TD3** Carrier Details (Equipment)

Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	TD301	40	Equipment Description Code	M ID 2/2

Valid codes listed below
TL Trailer (not otherwise specified)

Advance Ship Notice (856)

Transaction Specifications

	Ref. Des.	Data Element	Name	Attributes
Must Use	TD303	207	**Trailer Number**	**M AN 1/10**

- The number on the side of the trailer. This number must consist of characters from the ranges 0 thru 9, A thru Z, or a thru z.
- This data element is mandatory, therefore it must be completed for air shipments also.
- This number must match the trailer number on the Master Packing List.

Segment: REF BOL Number

Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	**Bill of Lading Qualifier**	**M ID 2/3**

Valid codes are listed below
BM - Bill of Lading Number

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF02	127	**Bill of Lading Number**	**M AN 1/12**

Segment: N1 MACI Ordering Plant Location

Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	**Entity Identifier Code**	**M ID 2/2**

Valid codes are listed below
16 Plant

	Ref. Des.	Data Element	Name	Attributes
Must Use	N103	66	**Identification Code Qualifier**	**M ID 1/2**

Valid codes are listed below
98 Purchasing Office

	Ref. Des.	Data Element	Name	Attributes
Must Use	N104	67	**MACI Plant ID**	**M AN 3/3**

This is the MACI code number for each logistical company.

For example: (May not be an all-inclusive list.)
MAC = MACI Dearing Road location

Advance Ship Notice (856)

Transaction Specifications

Segment: N1 Ship To Location
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	Entity Identifier Code	M ID 2/2

Valid codes are listed below
ST Ship To

	Ref. Des.	Data Element	Name	Attributes
Must Use	N103	66	Identification Code Qualifier	M ID 1/2

Valid codes are listed below
92 Assigned by Buyer or Buyer's Agent

	Ref. Des.	Data Element	Name	Attributes
Must Use	N104	67	Ship-To Code	M AN 2/8

This is the code assigned by MACI for this ship to location.
- The ship-to code on the ASN must be the same as the corresponding ordering document.

Segment: N1 Ship From Supplier Location
Loop: Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	Entity Identifier Code	M ID 2/2

Valid codes are listed below
SU Supplier/Manufacturer

	Ref. Des.	Data Element	Name	Attributes
Must Use	N103	66	Identification Code Qualifier	M ID 1/2

Valid codes are listed below
92 Assigned by Buyer or Buyer's Agent

	Ref. Des.	Data Element	Name	Attributes
Must Use	N104	67	Ship From Supplier Number	M AN 3/6

A 3 to 6-character code assigned by MACI to identify a specific supplier and location.

Advance Ship Notice (856)

Transaction Specifications

Segment: HL Tare/Pallet Hierarchical Level
Loop: HL Mandatory
Level: Detail

Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	HL01	628	Hierarchical ID Number	M AN 1/12
Must Use	HL02	734	Hierarchical Parent ID Number	M AN 1/12
Must Use	HL03	735	Hierarchical Level Code	M ID 1/2

Valid codes are listed below
T Shipping Tare

Segment: LIN Tare/Pallet Identification
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Notes: MACI defines a pallet as anything that takes up floor space on a truck.
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	LIN02	235	Tare/Pallet Packaging ID Qualifier	M ID 2/2

Valid codes are listed below:
PG Packaging Specification Number

	Ref. Des.	Data Element	Name	Attributes
Must Use	LIN03	234	Tare/Pallet Packaging Type	M AN 1/10

- This will be a 1 to 10 digit code corresponding to the MACI returnable type.
- If the packaging type is not a MACI returnable, input "XX".
- Suppliers are encouraged to use Bingo cards for valid packaging types.

	Ref. Des.	Data Element	Name	Attributes
	LIN04	235	Returnable Pallet Serial ID Qualifier	X ID 2/2

Valid codes are listed below:
RC Returnable Container Number

	Ref. Des.	Data Element	Name	Attributes
	LIN05	234	Returnable Pallet Serial Number	X AN 1/16

- LIN04 & 05 should not be sent if the packaging type is a non-returnable.
- LIN04 & 05 are optional for a returnable packaging type.

Advance Ship Notice (856)

Transaction Specifications

- This value is the scanned returnable ID tag (also called a fixed asset tag).

Segment: **REF** Master/Mixed Label S/N
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	**Master/Mixed Label Qualifier**	**M ID 2/3**

Valid codes are listed below
LS Bar-Coded Serial Number

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF02	127	**Master/Mixed Label Serial Number**	**M AN 12/18**

- Scanned serial number from the Master or Mixed load label.
- This number is created by the MACI supplier.
- Format: first three to nine characters should be the supplier code, the last nine characters should be assigned such that the number is unique within a three year period.

Segment: **HL** Item Hierarchical Level
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	HL01	628	**Hierarchical ID Number**	**M AN 1/12**
Must Use	HL02	734	**Hierarchical Parent ID Number**	**M AN 1/12**
Must Use	HL03	735	**Hierarchical Level Code**	**M ID 1/2**

Valid codes are listed below
I Item

Segment: **LIN** Item Identification
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1

Advance Ship Notice (856)

Transaction Specifications

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**LIN02**	**235**	**Mfg Base Part Number Qualifier**	**M ID 2/2**

Valid codes are listed below
BP Buyer's Part Number

	Ref. Des.	Data Element	Name	Attributes
Must Use	**LIN03**	**234**	**Mfg Base Part Number**	**M AN 1/15**

	Ref. Des.	Data Element	Name	Attributes
Must use	**LIN08**	**235**	**Purchase Order Qualifier**	**M ID 2/2**

Valid codes are listed below:
PO Purchase Order Number

	Ref. Des.	Data Element	Name	Attributes
Must use	**LIN109**		**Purchase Order Number**	**M AN 1/7**

	Ref. Des.	Data Element	Name	Attributes
Must use	**LIN10**	**235**	**Release Qualifier**	**M ID 2/2**

Valid codes are listed below:
RL Release Number

	Ref. Des.	Data Element	Name	Attributes
Must use	**LIN11**	**234**	**Release Number**	**M AN 1/4**

	Ref. Des.	Data Element	Name	Attributes
Must use	**LIN12**	**235**	**Suppliers Mfg Lot Qualifier**	**M ID 2/2**

Valid codes are listed below
SL Seller's Lot Number

	Ref. Des.	Data Element	Name	Attributes
Must Use	**LIN13**	**234**	**Suppliers Mfg Lot Number**	**M AN 6/10**

This is the supplier's manufacturing lot number.

	Ref. Des.	Data Element	Name	Attributes
	LIN24	**235**	**Returnable Container Serial ID Qualifier**	**X ID 2/2**

Valid codes are listed below:
RC Returnable Container Number

Advance Ship Notice (856)

Transaction Specifications

Ref. Des.	Data Element	Name	Attributes
LIN25	234	Returnable Container Serial Number	X AN 1/16

- LIN24 & 25 should not be sent if the packaging type is a non-returnable.
- LIN24 & 25 are optional for a returnable packaging type.
- Scanned returnable ID tag (also called a fixed asset tag).

	Ref. Des.	Data Element	Name	Attributes
Must Use	LIN26	235	Container Packaging ID Qualifier	M ID 2/2

Valid codes are listed below
PG Packaging Specification Number

	Ref. Des.	Data Element	Name	Attributes
Must Use	LIN27	234	Container Packaging Type	M AN 1/10

- The packaging type should match the corresponding MACI outbound 830 TD105.
- This will be a 1 to 10 digit code corresponding to the MACI returnable type.
- If the packaging type is not a MACI returnable, input "XX".
- Suppliers are encouraged to use Bingo cards for valid packaging types.

Segment: SN1 Item Detail (Shipment)
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SN102	382	Quantity	M R 1/7

The quantity in the container listed in the previous LIN.

	Ref. Des.	Data Element	Name	Attributes
Must Use	SN103	355	Unit or Basis for Measurement Code	M ID 2/2

Refer to ANSI guidelines for a list of valid codes

Segment: REF Container Label S/N
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	Container (Part ID) Label Qualifier	M ID 2/3

Valid codes are listed below
LS Bar-Coded Serial Number

Advance Ship Notice (856)

Transaction Specifications

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF02	127	Container (Part ID) Label Serial Number	M AN 12/18

- Scanned serial number from parts identification label on each container.
- This number is created by the MACI supplier.
- Format: first three to nine characters should be the supplier and location code, the last nine characters should be assigned such that the number is unique within a three year period.

Segment: CTT Transaction Totals

Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	CTT01	354	Number of HL Segments	M N0 1/6

The accumulation of the number of HL segments.

Must Use	CTT02	347	Hash Total	M R 1/10

The sum of the value of units shipped (SN102) for each SN1 segment.

Segment: SE Transaction Set Trailer

Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SE01	96	Number of Included Segments	M N0 1/10
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9

- Must be the same as Transaction Set Control Number in ST02

Advance Ship Notice (856)

Operating Procedures

Replacement Logic Inbound to MACI

Replacement logic for ASNs sent from a **supplier to MACI** is based on the Transaction Set Purpose Code and the ASN number. To cancel or replace an ASN, the supplier must re-send the ASN in question with the following adjustments.

1. The purpose code should be: 01 – Cancellation or 05 – Replace, (located in BSN01 in the ASN)

2. Any changes identified (for a replacement)

Note

The ASN number in the replacement or cancellation must match the original document. (The ASN number is located in BSN02.) MACI will cancel or replace the ASN based upon the purpose code and a match to an existing supplier number and ASN.

Note

The ASN to be canceled or replaced must be received prior to shipment arrival. (It will not be processed if it arrives after trailer arrival.)

Note

The Transaction Set Control Number (ST02) must be unique within a calendar year, even for a replacement or cancellation.

Advance Ship Notice (856)

Operating Procedures

Reconciliation Requirements

MACI requires reconciliation (a systematic comparison) of the ordering document (830) to the Advanced Ship Notice (ASN) (856). The purpose is to ensure that suppliers are shipping what MACI has ordered. By capturing discrepancies prior to truck departure and ASN generation, potential miss-shipments can be corrected, avoiding costly corrective countermeasures. There are two distinct steps to the reconciliation process.

1. Reconciling the ordering document (830) to the planned load(s). Planned load is a MACI term describing a MACI order within the suppliers system. It is a group or subgroup of parts and quantities from a MACI ordering document which share a common MACI ordering plant ID, ship to code and ship (or deliver) date.

• A planned load may take the form of a pick list.
• A planned load will relate one to one to the ASN and Master Packing List.
• **The supplier's software must have the capability to create multiple planned loads when a MACI ordering document spans multiple trailers.** For orders which span **multiple trailers**, the multiple planned loads should reconcile to the **single** ordering document.

2. Reconciling the planned load to the ASN. For both steps, discrepancies can be identified on-line or hard copy. Following are the items to be reconciled and the action requested:

Item to reconcile with action to be taken

Invalid Part Number (Manufacturing Base Part Number-MBPN)
The system must **alert** the user of a part number mismatch between the ordering document and ASN. Verify and correct the information as required.

Invalid Ship to Code
The system must **not allow** a ship-to code mismatch between the ordering document and ASN. Correct the discrepancy. MACI **will not accept** an ASN with a ship to code that does not match the ordering document. This will result in a rejected ASN.

Mis-shipments may result in a Domestic Supplier Corrective Action Report (SCAR).

Unscheduled Requirements
MACI may occasionally place an order by phone, instead of using the normal 830 transaction. An ASN **must** be used in response to these orders. Approved software must have this capability.

There are various methods to create an ASN in this circumstance, including:

1. Using a future or past ordering document (with the correct ordering plant, ship to code, and part number) to ship the requirements against. This will result in a valid Purchase Order Number being used.

Advance Ship Notice (856)

Operating Procedures

Note
The ordering document must be less than 30 days old.

2. Adding the item to an existing planned order (with the correct ordering plant and ship to code), verifying that the part number/ship schedule number relationship existed within the prior 30 days.

3. Creating a planned order, using a valid Purchase Order Number.

4. Creating a planned order using a valid Purchase Order Number given to the supplier from MACI.

Over/Under Shipment
The system must **alert** the user of an over shipment of parts on the ASN (versus the ordering document). The shipper should confirm the quantity scanned versus the quantity required. The system must allow the user to take either of the following steps: 1) over/under ship or 2) re-scan to ship the required amount.

Order quantity linked to an Order Number Release Number combination.
The system must alert the user of an over or under shipment of a particular order when creating an ASN (versus the ordering document). The shipper should confirm the quantity scanned versus the order quantity. The system must allow the supplier to take either of the following steps: 1)over or under ship or 2)re-scan to ship the required amount.

Data Integrity The software must maintain the linkage of the following fields from 830 receipt through shipment/ASN creation:
- Part Number
- Purchase Order Number
- Release Number

Advance Ship Notice (856)

Operating Procedures

Responses to an Advanced Ship Notice (ASN/856)

1) The supplier sends MACI an Advanced Ship Notice (ASN or 856).

2) MACI sends a Functional Acknowledgement (997) in response to ASNs that are received into our translator. The 997 is a standard communications "handshake" verification. It confirms successful communication has occurred between the EDI translators of each pair of trading partners. Receiving a 997 does not imply acceptance or suitability of data from MACI's application systems.

FREQUENCY: A 997 will be sent as soon as possible upon the inbound documents receipt at MACI.

3) MACI will send an Application Advice (824) in response to ASNs containing errors that are received into our application system. The 824 provides feedback to the MACI supplier regarding the presence of any errors detected by MACI's application system.

FREQUENCY: This will be transmitted approximately fifteen (15) minutes after receipt of the inbound document found to contain errors.

Functional Acknowledgment (997)
Transaction Description

Transaction Covered
Functional Acknowledgement (Transaction Set 997), abbreviated "SH".

Application Standards and Conventions
The 997 set is based upon the *ANSI ASC X12 Version Release 004010* document.

Mapping A list of the Functional Acknowledgement business data elements and how they are transmitted via EDI Standards is provided in the "Transaction Specifications".

Exceptions / Clarifications There are no Exceptions to ANSI Standards in this Transaction Description.

Schedule The Functional Acknowledgement shall be transmitted immediately upon receipt of any EDI document. MACI will send Functional Acknowledgements (997) for all ASNs.

Specifications In transmitting the Advance Ship

Notice, a User Message Class
(MSGUCLS) of "856" must be present to transmit the data to the buyer's/seller's mailbox.

Back-Up Procedure In the event of a failure of Electronic Data Interchange, it is the responsibility of the sending party to transmit the contents of any pending transmission to the receiving party using a method of non-EDI transmission which is timely, reasonable, and appropriate under the circumstances.

Functional Acknowledgment (997)

Transaction Specifications

Segment: **AK1** **Functional Group Response Header**
Loop:
Level:
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	AK101	479	Transaction Group Type Being Acknowledged	M ID 2/2

For example:
"AG" = Application Advice (824)
"PS" = Weekly Release (830)
"SH"= Advance Ship Notice (856)

	Ref. Des.	Data Element	Name	Attributes
Must Use	AK102	28	Group Control Number	M N0 1/9

From GS06 of the corresponding transaction.

Segment: **AK2** **Transaction Set Response Header**
Loop: AK2 Mandatory
Level:
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	AK201	143	Transaction Set Type Being Acknowledged	M ID 3/3

For example: 830, 856, 862

	Ref. Des.	Data Element	Name	Attributes
Must Use	AK202	329	Transaction Set Control Number	M AN 4/9

From ST02 of the corresponding transaction.

Segment: **AK5** **Transaction Set Response Trailer**
Position: 060
Loop: AK2 Mandatory
Level:
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	AK501	717	Transaction Set Acknowledgment Code	M ID 1/1

Valid codes are listed below
A Accepted

Functional Acknowledgment (997)

Transaction Specifications

Segment: AK9 **Functional Group Response Trailer**
Position: 070
Loop:
Level:
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	AK901	715	**Functional Group Acknowledge Code**	**M ID 1/1**

Valid codes are listed below
A Accepted

	Ref. Des.	Data Element	Name	Attributes
Must Use	AK902	97	**Number of Transaction Sets Included**	**M N0 1/6**
Must Use	AK903	123	**Number of Received Transaction Sets**	**M N0 1/6**

Segment: SE **Transaction Set Trailer**
Position: 080
Loop:
Level:
Usage: Mandatory
Max Use: 1
Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SE01	96	**Number of Included Segments, Including ST and SE**	**M N0 1/10**
Must Use	SE02	329	**Transaction Set Control Number**	**M AN 4/9**

Appendix A
Sample Material Release (830)

This sample material release authorizes the following shipments of part MC123456-7890: 300 pieces to be delivered to MACI on 2/05/2004 and 360 pieces to be delivered on 2/11/2004. The remainder of the forecast is for planning purposes only.

```
ISA*00*        *00*        *ZZ*EB439 EB439S1  *ZZ*XYZ  XYZ  *040203*1130*U*00400*0000003 62*0*P*¬~
GS*PS*606360444*123456789*20040203*1130*362*X*004010~
ST*830*0024939~
BFR*05*0024939**DL*R*20040203**20040202~
DTM*167*20040203*1120~
TD5**2*CUOT~
N1*16*MICHIGAN AUTOMOTIVE COMPRESSOR *98*MAC~
PER*BD*MACI Planner Name~
N1*SU*XYZ SUPPLIER CO*92*S123~
N3*1234 DRIVE DRIVE*P.O. BOX 123~
N4*SOMECITY*ST*12345*US~
PER*SU*Your Salesperson~
LIN**BP*MC123456-7891***PD*SOME PART*PO*P055555~
UIT*EA~
N1*ST*MACI*92*999~
N3*MACI*2400 N. Dearing Rd~
N4*Parma*MI*49269*US~
FST*300*C*C*20040205****RE*001~
FST*360*C*C*20040211****RE*002~
FST*420*D*W*20040216~
FST*300*D*W*20040223~
FST*360*D*W*20040301~
FST*360*D*W*20040308~
FST*480*D*W*20040315~
FST*120*D*W*20040322~
FST*360*D*W*20040329~
FST*420*D*W*20040405~
FST*360*D*W*20040412~
FST*300*D*W*20040419~
FST*0*D*W*20040426~
FST*360*D*W*20040503~
FST*300*D*W*20040510~
FST*300*D*W*20040517~
FST*360*D*W*20040524~
FST*240*D*W*20040531~
FST*300*D*W*20040607~
FST*300*D*W*20040614~
FST*360*D*W*20040621~
FST*0*D*W*20040628~
FST*300*D*W*20040705~
CTT*1*8040~
SE*44*QC0024939~
GE*1*362~
IEA*1*000000362~
```

Appendix B
Sample Advance Ship Notice (856)

This ASN represents a shipment of two non-returnable pallets each holding two non-returnable containers of 60 units each.

```
ISA*00*      *00*      *ZZ*SUPP01  SUPP01 *ZZ*MACI   MACI
*040219*0223*U*00400*000003143*0*P*¬~
GS*SH*606360444*092162643*20040219*0223*3143*X*004010~
ST*856*31430001~
BSN*00*00006163*20040219*0223~
DTM*011*20040219*0700~
HL*1**S~
TD1******N*2040*01~
TD5**2*CUOT~
TD3*TL**01103~
REF*BM*0219435~
N1*16**98*MAC~
N1*ST**92*999~
N1*SU**92*A1B2C3~
HL*2*1*T~
LIN**PG*XX**~
REF*LS*A1B2C3000000007~
HL*3*2*I~
LIN**BP*MC12345-6789*****PO*P055555*RL*001*SL*20040213************PG*XX~
SN1**60*EA~
REF*LS*A1B2C3000000008~
HL*4*2*I~
LIN**BP*MC12345-6789*****PO*P055555*RL*001*SL*20040213************PG*XX~
SN1**60*EA~
REF*LS*A1B2C3000000009~
HL*5*1*T~
LIN**PG*XX**~
REF*LS*A1B2C3000000010~
HL*6*5*I~
LIN**BP*MC12345-6789*****PO*P055555*RL*001*SL*20040213************PG*XX~
SN1**60*EA~
REF*LS*A1B2C3000000011~
HL*7*5*I~
LIN**BP*MC12345-6789*****PO*P055555*RL*001*SL*20040213************PG*XX~
SN1**60*EA~
REF*LS*A1B2C3000000012~
CTT*7*240~
SE*35*31430001~
GE*1*3143~
IEA*1*000003143~
```

Appendix C
Sample Application Advice (824)

The following Application Advice demonstrates an Advance Ship Notice which has been rejected with error:

```
ISA*00*          *00*          *ZZ*MACI  MACI  *ZZ*SUPP01  SUPP01  *040217*1410*U*00400*000000660*0*P*¬~
GS*AG*008860389*606360444*20040217*1410*660*X*004010~
ST*824*1B0036895~
BGN*00*04811100*20040217*1110~
N1*16**6*MAC~
N1*SU*SUPPLIER NAME*92*SUPP01~
N3*SUPPLIER ADDRESS~N4*CITY*ST*73017*USA~
PER*SU*SUPPLIER CONTACT~
N1*ST*91~
OTI*TR*SI*08104122***20040217*1329***856~
TED*ZZZ*PO Release Not Open~
NTE*ADD* LIN++BP+MC12345-6789+++++PO+P055555+RL+001+SL+20040213+++++++++++++PG+XX
SE*11*1B0036895~
GE*1*660~
IEA*1*000000660~
```

Appendix D
Sample Functional Acknowledgement (997)

The following Functional Acknowledgement demonstrates an Advance Ship Notice received:

ISA*00*   *00*   *ZZ*EB439 EB439S1 *01*004154415   *050614*132
3*U*00401*000002571*0*P*>~
GS*FA*606360444*004154415*20050614*1323*000000075*X*004010~
ST*997*000002571~
AK1*SH*000000074~
AK2*856*0078~
AK5*A~
AK9*A*000001*000001~
SE*000006*000002571~
GE*000001*000000075~

IEA*00001*000002571~

Summary of changes

856 – ASN

BSN segment

Must Use   **BSN02 396**   **ASN Number**   **M AN 8/30**
- The MACI supplier creates this number. For an original ASN (BSN01=00), the ASN Number cannot be repeated within a year.
- This number must consist of characters from the ranges 0 thru 9, A thru Z, or a thru z.

N1 segment - ship from

Must Use   **N104   67**   **Ship From Supplier Number**   **M AN 3/6**
A 3 to 6-character code assigned by MACI to identify a specific supplier and location.

LIN segment at Item level

Must Use   **LIN03 234**   **Mfg Base Part Number**   **M AN 1/15**

Must use   **LIN109**   **Purchase Order Number**   **X AN 1/7**

Must use   **LIN11 234**   **Release Number**   **X AN 1/4**

Must Use   **LIN13 234**   **Suppliers Mfg Lot Number**   **X AN 1/10**
This is the supplier's manufacturing lot number.

Added Appendix D Example Functional Acknowledgement (997)