810 Invoice – Service Parts
Version: 004010

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Document Control

Rev	Date	Author	Purpose for Change
1.0	May 8, 2007	Z. Belicajevic	Creation of Implementation Guide
1.1	June 1, 2007	S. Nagarajan	Fixed the examples so that the release number is set correctly either at the detail or header level. Also added additional example for ship direct
1.15	June 1, 2007	S. Nagarajan	Fixed SAC and TDS in Example
1.20	June 20, 2007	S. Nagarajan	Fixed ISA06 and GS03 in examples to read *601943181*
1.25	June 29, 2007	R. Heether	Corrected ISA12, modified data examples
1.30	August 31, 2007	R. Heether	Updated "Must Use" / "Mandatory" Fields, added hard-coding note to REF*ZZ segment, and added some comments for clarification
1.40	April 14, 2008	S. Nagarajan	Fixed REF02 to be min/max = 5 (SPSNA)
1.50	August 22, 2008	S. Nagarajan	Updated usage for loops in the TOC and added usage line in summary page for loops Loop N1, 3rd N1 segment changed to Must use on page 14 Updated CNH logo
1.55	August 28, 2008	S. Nagarajan	Fixed SAC loops marked "Must use" instead of "Used" in the TOC

810

Invoice

Functional Group=IN

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	ISA	Interchange Control Header	M	1			Must use
0200	GS	Functional Group Header	M	1			Must use

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	ST	Transaction Set Header	M	1			Must use
0200	BIG	Beginning Segment for Invoice	M	1			Must use
0400	CUR	Currency	O	1			Must use
0500	REF	Reference Identification	O	12			Must use
LOOP ID - N1					**200**		**Must Use**
0900	N1	Name (Supplier)	O	1			Must use
1000	N1	Name (Bill-To)	O	1			Must use
1100	N1	Name (Ship-To)	O	1			Must use
1300	N3	Address Information (Ship-To)	O	2			Used
1400	N4	Geographic Location (Ship-To)	O	1			Used
1800	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used
1900	DTM	Date/Time Reference	O	10			Must use

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - IT1					**200000**		**Must Use**
0200	IT1	Baseline Item Data (Invoice)	O	1			Must use
0700	TXI	Tax Information	O	10			Used
LOOP ID - PID					**1000**		**Used**
1200	PID	Product/Item Description	O	1			Used
1800	REF	Reference Identification (Packing List Number)	O	>1			Must use
1900	REF	Reference Identification (Shipment I.D. Number)	O	>1			Used
LOOP ID - SAC					**25**		**Used**
2800	SAC	Service, Promotion, Allowance, or Charge Information (Detail)	O	1			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	TDS	Total Monetary Value Summary	M	1			Must use
0200	TXI	Tax Information	O	10			Used
0300	CAD	Carrier Detail	O	1			Used
LOOP ID - SAC					**25**		**Used**
0600	SAC	Service, Promotion, Allowance, or Charge Information (Summary)	O	1			Used
1100	CTT	Transaction Totals	O	1		N3/1100	Must use
1200	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	GE	Functional Group Trailer	M	1			Must use
0200	IEA	Interchange Control Trailer	M	1			Must use

Notes:

3/1100   Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

User Note 1:

Please Note:
You will see some elements listed as "Optional" per ANSI X12 Standard ("Req" column), but are considered "Mandatory" ("Usage" column) per CNH's business rules.

User Note 2:

Example 1:

DEPOT INVOICE: "Detail" SAC segments present; Release Number provided in IT1_11

```
ISA^00^      ^00^      ^01^197957863    ^01^601943181    ^070403^0015^U^00401^000001652^0^P^*~
GS^IN^197957863^601943181^20070403^0015^212^X^004010~
ST^810^2120001~
BIG^20070330^35984486^^673910~
CUR^BY^USD~
REF^ZZ^SPSNA~
N1^SU^ABC COMPANY^92^7391000~
N1^BT^^92^SPS~
N1^ST^CNH NORTH AM. PARTS RECEIVING CENTER^92^3600000~
DTM^011^20070330~
IT1^002^3^EA^159.35^PE^BP^86546052^^^RN^B96~
REF^PK^35984486~
SAC^C^F150^^^996^^^^EA^3^^06~
IT1^001^4^EA^159.35^PE^BP^86546052^^^RN^CA9~
REF^PK^35984486~
SAC^C^F150^^^996^^^^EA^4^^06~
IT1^001^4^EA^31.88^PE^BP^632772^^^RN^CB6~
REF^PK^35984486~
SAC^C^F150^^^993^^^^EA^4^^06~
TDS^135241~
CTT^3~
SE^20^2120001~
GE^1^212~
IEA^1^000001652~
```

Example2:

DEPOT INVOICE: "Summary" SAC Segment present; Release Number provided in BIG_05

ISA^00^   ^00^   ^01^197957863   ^01^601943181   ^070403^0015^U^00401^000001652^0^P^*~
GS^IN^197957863^601943181^20070403^0015^212^X^004010~
ST^810^2120001~
BIG^20070330^35984486^^673910^B96~
CUR^BY^USD~
REF^ZZ^SPSNA~
N1^SU^ABC COMPANY^92^7391000~
N1^BT^^92^SPS~
N1^ST^ CNH NORTH AM. PARTS RECEIVING CENTER ^92^3600000~
DTM^011^20070330~
IT1^002^3^EA^159.35^PE^BP^86546052~
REF^PK^35984486~
TDS^47805~
*SAC*C*D240***705*******06~*
CTT^1~
SE^20^2120001~
GE^1^212~
IEA^1^000001652~

Example 3:

SHIP DIRECT INVOICE: "Summary" SAC segment present; PSO Number provided in IT1_13

ISA*00*   *00*   *01*066054412   *01*601943181   *070331*0559*U*00401*000005372*0*P*\\~
GS*IN*066054412*601943181*070331*0559*3838*X*004010~
ST*810*0001~
BIG*20070331*1603618**640680~
CUR*BY*USD~
REF*ZZ*SPSNA~
N1*SU*ABC COMPANY*92*5995000~
N1*BT*SPS*92*SPS~
*N1*ST*ELLEN EQUIPMENT LLC - 61637A*92*61637A~*
N3*6613 EDITH BLVD NE~
N4*ALBUQUERQUE*NM*87113~
DTM*011*20070330~
IT1*1*1*EA*71.26*PE*BP*D122568*****ZZ*5180973~
PID*F****LATCH~
REF*PK*811393-87113~
TDS*7696~
*SAC*C*H550***570*******06~*
CTT*1~
SE*17*0001~
GE*1*3838~
IEA*1*000005372~

ISA Interchange Control Header

Pos: 0100	**Max: 1**
Not Defined - Mandatory	
Loop: N/A	**Elements: 16**

User Option (Usage): Must use

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Must use
		Description: Code to identify the type of information in the Authorization Information **All valid standard codes are used.**				
ISA02	I02	**Authorization Information**	M	AN	10/10	Must use
		Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)				
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Must use
		Description: Code to identify the type of information in the Security Information **All valid standard codes are used.**				
ISA04	I04	**Security Information**	M	AN	10/10	Must use
		Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)				
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified **All valid standard codes are used.**				
ISA06	I06	**Interchange Sender ID**	M	AN	15/15	Must use
		Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element				
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				

Code	Name
01	Duns (Dun & Bradstreet)

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

Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them

User Note 1:
CNH ISA_08 Production ID: "601943181"

CNH ISA_08 Test ID: "601943181TEST"

ISA09	I08	**Interchange Date**	M	DT	6/6	Must use

Description: Date of the interchange

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

Description: Time of the interchange

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

Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer
All valid standard codes are used.

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

Description: Code specifying the version number of the interchange control segments

Code	**Name**
00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997

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

Description: A control number assigned by the interchange sender

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

Description: Code sent by the sender to request an interchange acknowledgment (TA1)

Code	**Name**
0	No Acknowledgment Requested

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

Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information
All valid standard codes are used.

ISA16	I15	**Component Element Separator**	M		1/1	Must use

Description: Type is not applicable; 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

GS   Functional Group Header

Pos: 0200	Max: 1
Not Defined - Mandatory	
Loop: N/A	**Elements: 8**

User Option (Usage): Must use

To indicate the beginning of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code**	M	ID	2/2	Must use

    Description: Code identifying a group of application related transaction sets

Code	**Name**
IN	Invoice Information (810,819)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS02	142	**Application Sender's Code**	M	AN	2/15	Must use

    Description: Code identifying party sending transmission; codes agreed to by trading partners

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS03	124	**Application Receiver's Code**	M	AN	2/15	Must use

    Description: Code identifying party receiving transmission; codes agreed to by trading partners

    User Note 1:
    CNH GS_03 Production ID: "601943181"

    CNH GS_03 Test ID: "601943181TEST

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS04	373	**Date**	M	DT	8/8	Must use

    Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS05	337	**Time**	M	TM	4/8	Must use

    Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS06	28	**Group Control Number**	M	N0	1/9	Must use

    Description: Assigned number originated and maintained by the sender

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS07	455	**Responsible Agency Code**	M	ID	1/2	Must use

    Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480
    All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	Must use

Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

Code	Name
004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST   Transaction Set Header

| Pos: 0100   Max: 1 |
| Heading - Mandatory |
| Loop: N/A   Elements: 2 |

User Option (Usage): Must use

To indicate the start of a transaction set and to assign a control number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Must use
		Description: Code uniquely identifying a Transaction Set				

Code	Name
810	Invoice

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST02	329	**Transaction Set Control Number**	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BIG

Beginning Segment for Invoice

Pos: 0200	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 4**

User Option (Usage): Must use

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG01	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

User Note 1:
Invoice Date

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG02	76	**Invoice Number**	M	AN	1/22	Must use

Description: Identifying number assigned by issuer

User Note 1:
1) No leading spaces
2) If using alpha characters, please use UPPER CASE

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG04	324	**Purchase Order Number**	O	AN	1/22	Must use

Description: Identifying number for Purchase Order assigned by the orderer/purchaser

User Note 1:
The value of this field should be mapped from the BEG_03 field of the 850 Purchase Order message sent to you by CNH

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG05	328	**Release Number**	O	AN	1/30	Used

Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction

User Note 1:

MANDATORY FOR SERVICE PARTS DEPOT ORDERS (Please read note below)

NOTE:
If you are invoicing one Release Number only, then provide the Release Number here in the BIG-05 Field.
If you are invoicing multiple Release Numbers, then provide the Release Number in the IT1-11 field of each IT1 segment.

See User Note 1 Below

Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments:

1. BIG07 is used only to further define the type of invoice when needed.

User Note 1:

Example:
BIG^20070330^35984486^^673910^B96~

CUR   Currency

<table>
<tr><td>Pos: 0400</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Must use

To specify the currency (dollars, pounds, francs, etc.) used in a transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR01	98	**Entity Identifier Code**	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code	Name
BY	Buying Party (Purchaser)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR02	100	**Currency Code**	M	ID	3/3	Must use

Description: Code (Standard ISO) for country in whose currency the charges are specified

User Note 1:
This is a three-position alpha code from the ISO-4217 code list.

The primary codes used in North America are:
CAD   Canadian Dollars
USD   United States Dollars

Some other frequently used codes are:
EUR   Euro
JPY   Japanese Yen

Syntax Rules:
1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. C1110 - If CUR11 is present, then CUR10 is required.
5. C1210 - If CUR12 is present, then CUR10 is required.
6. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. C1413 - If CUR14 is present, then CUR13 is required.
8. C1513 - If CUR15 is present, then CUR13 is required.
9. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. C1716 - If CUR17 is present, then CUR16 is required.
11. C1816 - If CUR18 is present, then CUR16 is required.
12. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. C2019 - If CUR20 is present, then CUR19 is required.
14. C2119 - If CUR21 is present, then CUR19 is required.

Comments:

 1. See Figures Appendix for examples detailing the use of the CUR segment.

User Note 1:

Example:
*CUR*BY*USD~*

REF   Reference Identification

Pos: 0500	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/2	Must use

Description: Code qualifying the Reference Identification

Code	Name
ZZ	Mutually Defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	X	AN	5/5	Must use

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

User Note 1:

CNH is sending this source value in the header section REF_02 field (with REF_01 = "ZZ") of the 850 message

This value is required to be returned here to allow CNH to perform the proper routing of the message.

You may hard-code this segment as shown below :

REF*ZZ*SPSNA

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Loop N1

Pos: 0800	**Repeat: 200**
Optional	
Loop: N1	**Elements: N/A**

User Option (Usage): Must use

To identify a party by type of organization, name, and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0900	N1	Name (Supplier)	O	1		Must use
1000	N1	Name (Bill-To)	O	1		Must use
1100	N1	Name (Ship-To)	O	1		Must use
1300	N3	Address Information (Ship-To)	O	2		Used
1400	N4	Geographic Location (Ship-To)	O	1		Used

N1 Name (SU - Supplier)

Pos: 0900	**Max: 1**
Heading - Optional	
Loop: N1	**Elements: 4**

User Option (Usage): Must use

To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/2	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code	Name
SU	Supplier/Manufacturer

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	X	AN	1/60	Must use

Description: Free-form name
User Note 1:
Your Supplier Name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	X	ID	2/2	Must use

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
92	Assigned by Buyer or Buyer's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	5/7	Must use

Description: Code identifying a party or other code
User Note 1:
CNH Service Parts requires your Supplier Code in this field. This code is sent to you from CNH Service Parts in the N1_04 (having N1_01 = "SU") of the 850 Purchase Order.

See User Note 1 Below

Syntax Rules:
1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:
1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

User Note 1:

Example:
N1*SU*ABC COMPANY*92*5995000~

N1   Name (BT - Bill-To)

Pos: 1000	Max: 1
Heading - Optional	
Loop: N1	**Elements: 4**

User Option (Usage): Must use

To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/2	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code	Name
BT	Bill-to-Party

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	X	AN	1/60	Used

Description: Free-form name
User Note 1:
CNH SERVICE PARTS   (After Sales)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	X	ID	2/2	Must use

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
92	Assigned by Buyer or Buyer's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	3/3	Must use

Description: Code identifying a party or other code
User Note 1:
SPS   Service Parts (After Sales)

See Example Below

Syntax Rules:
1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:
1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

User Note 1:

Example:
N1*BT*CNH SERVICE PARTS*92*SPS~

N1   Name (ST - Ship-To)

Pos: 1100   Max: 1
Heading - Optional
Loop: N1   Elements: 4

User Option (Usage):   Must use

To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/2	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code	Name
ST	Ship To

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	X	AN	1/60	Used

Description: Free-form name
User Note 1:
For CNH Service Parts - use Dealer's Name or Depot's Name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	X	ID	2/2	Must use

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
92	Assigned by Buyer or Buyer's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	6/7	Must use

Description: Code identifying a party or other code
User Note 1:
Dealer or Depot Code (Service Parts Only)

NOTE: MANDATORY FOR SERVICE PARTS

CNH Service Parts requires the Ship-To Code in this field. The value of this field (7-digit Depot code or 6-digit Dealer code) should be mapped from the N1_04 field with N1_01 = "ST" of the 850 Purchase Order message.

See User Note 1 Below

Syntax Rules:
1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

User Note 1:

For Depot Shipments:
*N1*ST*RECEIVING CTR -- NORTH AM. PARTS*92*3600000~*

For Ship Direct (Dealer) Shipments: (Example)
*N1*ST*DEALER NAME*92*61637A~*

N3   Address Information (Ship-To)

Pos: 1300	**Max: 2**
Heading - Optional	
Loop: N1	**Elements: 2**

User Option (Usage): Used

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information**	M	AN	1/55	Must use
		Description: Address information				
		User Note 1:				
		Ship-to Street Address				
N302	166	**Address Information**	O	AN	1/55	Used
		Description: Address information				
		User Note 1:				
		Ship-to Street Address continuation				

User Note 1:

Example:
*N3*6613 EDITH BLVD NE~*

N4 Geographic Location (Ship-To)

Pos: 1400	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	O	AN	2/30	Used
		Description: Free-form text for city name				
		User Note 1:				
		Ship-to City				
N402	156	**State or Province Code**	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
		User Note 1:				
		Ship-to State or Province				
N403	116	**Postal Code**	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
		User Note 1:				
		Ship-to Zip Code				
N404	26	**Country Code**	O	ID	2/3	Used
		Description: Code identifying the country				
		User Note 1:				
		Ship-to Country				

Syntax Rules:
1. C0605 - If N406 is present, then N405 is required.

Comments:
1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

User Note 1:

Example:
*N4*ALBUQUERQUE*NM*87113~*

ITD   Terms of Sale/Deferred Terms of Sale

Pos: 1800	Max: >1
Heading - Optional	
Loop: N/A	**Elements: 3**

User Option (Usage): Used

To specify terms of sale

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD03	338	**Terms Discount Percent**	O	R	1/6	Used
		Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date				
ITD05	351	**Terms Discount Days Due**	X	N0	1/3	Used
		Description: Number of days in the terms discount period by which payment is due if terms discount is earned				
ITD07	386	**Terms Net Days**	O	N0	1/3	Used
		Description: Number of days until total invoice amount is due (discount not applicable)				

Syntax Rules:
1. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. L08040513 - If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. L091011 - If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:
1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:
1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

User Note 1:

*ITD***0**0**30~*

DTM   Date/Time Reference

Pos: 1900	Max: 10
Heading - Optional	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time

Code	Name
011	Shipped

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	X	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

User Note 1:

Date Shipped

This date must match the date from DTM_02 (having DTM_01 = "011") of the corresponding ASN (856 message).

Syntax Rules:
1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

User Note 1:

Example:
*DTM*011*20070330~*

Loop IT1

Pos: 0100	**Repeat: 200000**
Optional	
Loop: IT1	**Elements: N/A**

User Option (Usage): Must use

To specify the basic and most frequently used line item data for the invoice and related transactions

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0200	IT1	Baseline Item Data (Invoice)	O	1		Must use
0700	TXI	Tax Information	O	10		Used
1100		Loop PID	O		1000	Used
1800	REF	Reference Identification	O	>1		Must use
1900	REF	Reference Identification	O	>1		Used
2700		Loop SAC	O		25	Used

IT1 Baseline Item Data (Invoice)

Pos: 0200	**Max: 1**
Detail - Optional	
Loop: IT1	**Elements: 13**

User Option (Usage): Must use

To specify the basic and most frequently used line item data for the invoice and related transactions

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT101	350	**Assigned Identification**	O	AN	3/5	Must use

Description: Alphanumeric characters assigned for differentiation within a transaction set

User Note 1:
Purchase Order Line Item Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT102	358	**Quantity Invoiced**	X	R	1/10	Must use

Description: Number of units invoiced (supplier units)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT103	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Must use

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

User Note 1:
This should be the same Unit of Measure provided on the corresponding order document. This value is sent to you by CNH in the P01_03 of the 850 Purchase Order. Examples listed below.

EA   Each
PC   Piece
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT104	212	**Unit Price**	X	R	1/17	Must use

Description: Price per unit of product, service, commodity, etc.

User Note 1:
Maximum of four decimal places

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT105	639	**Basis of Unit Price Code**	O	ID	2/2	Must use

Description: Code identifying the type of unit price for an item

Code	Name
HP	Price per Hundred
PE	Price per Each
TP	Price per Thousand

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT106	235	**Product/Service ID Qualifier**	X	ID	2/2	Must use

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

		Code					
		BP	Buyer's Part Number				
IT107	234	**Product/Service ID**		X	AN	1/48	Must use
		Description: Identifying number for a product or service					
		User Note 1: *CNH Part Number*					
IT108	235	**Product/Service ID Qualifier**		X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		Code	**Name**				
		VP	Vendor's (Seller's) Part Number				
IT109	234	**Product/Service ID**		X	AN	1/48	Used
		Description: Identifying number for a product or service					
		User Note 1: *Vendor Part Number*					
IT110	235	**Product/Service ID Qualifier**		X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		Code	**Name**				
		RN	Release Number				
IT111	234	**Product/Service ID**		X	AN	1/48	Used
		Description: Identifying number for a product or service					
		User Note 1: *THIS RELEASE NUMBER IS MANDATORY FOR SERVICE PARTS DEPOT ORDERS - Please read note below* *CNH Service Parts sends you this 3-digit Release Number in the BEG_04 Field of the 850 Purchase Order.* *NOTE:* *If you are invoicing multiple Release Numbers, then provide the Release Number here in the IT1_11 field of each IT1 segment. (See Example 1 below)* *If you are invoicing one Release Number only, then provide the Release Number in the BIG_05.*					
IT112	235	**Product/Service ID Qualifier**		X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		Code	**Name**				
		ZZ	Mutually Defined				
IT113	234	**Product/Service ID**		X	AN	1/48	Used
		Description: Identifying number for a product					

or service

User Note 1:

THE PSO NUMBER (Parts Shipping Order) IS MANDATORY FOR CNH SERVICE PARTS SHIP DIRECT (DEALER) ORDERS.

CNH Service Parts sends you this 7-digit Parts Shipping Order (PSO) Number in the REF-DC Segment of the 850 Purchase Order. (See Example 2 below)

Syntax Rules:

1. P020304 - If either IT102, IT103 or IT104 are present, then the others are required.
2. P0607 - If either IT106 or IT107 is present, then the other is required.
3. P0809 - If either IT108 or IT109 is present, then the other is required.
4. P1011 - If either IT110 or IT111 is present, then the other is required.
5. P1213 - If either IT112 or IT113 is present, then the other is required.
6. P1415 - If either IT114 or IT115 is present, then the other is required.
7. P1617 - If either IT116 or IT117 is present, then the other is required.
8. P1819 - If either IT118 or IT119 is present, then the other is required.
9. P2021 - If either IT120 or IT121 is present, then the other is required.
10. P2223 - If either IT122 or IT123 is present, then the other is required.
11. P2425 - If either IT124 or IT125 is present, then the other is required.

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

User Note 1:

For Depot Orders:
IT1^002^3^EA^159.35^PE^BP^86546052^^^RN^B96~

For Ship Direct (Dealer) Orders:
IT1*1*1*EA*71.26*PE*BP*D122568*****ZZ*5180973~

TXI   Tax Information

Pos: 0700   Max: 10
Detail - Optional
Loop: IT1   Elements: 6

User Option (Usage): Used

To specify tax information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI01	963	**Tax Type Code**	M	ID	2/2	Must use

Description: Code specifying the type of tax

Code	Name
GS	Goods and Services Tax
SP	State/Provincial Tax
SU	Sales and Use Tax

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI02	782	**Monetary Amount**	X	R	1/18	Used

Description: Monetary amount

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI03	954	**Percent**	X	R	1/10	Used

Description: Percentage expressed as a decimal

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI04	955	**Tax Jurisdiction Code Qualifier**	X	ID	2/2	Used

Description: Code identifying the source of the data used in tax jurisdiction code

Code	Name
CD	Customer defined
VD	Vendor defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI05	956	**Tax Jurisdiction Code**	X	AN	1/10	Used

Description: Code identifying the taxing jurisdiction

User Note 1:
GST Registration Number
PST Exemption Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI06	441	**Tax Exempt Code**	X	ID	1/1	Used

Description: Code identifying exemption status from sales and use tax

Code	Name
1	Yes (Tax Exempt)
2	No (Not Tax Exempt)

Syntax Rules:

1. R020306 - At least one of TXI02, TXI03 or TXI06 is required.
2. P0405 - If either TXI04 or TXI05 is present, then the other is required.
3. C0803 - If TXI08 is present, then TXI03 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

User Note 1:

TXI_02, TXI_03, or TXI_06 is required when TXI segment is used

Loop PID

Pos: 1100	**Repeat: 1000**
	Optional
Loop: PID	**Elements: N/A**

User Option (Usage): Used

To describe a product or process in coded or free-form format

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
1200	PID	Product/Item Description	O	1		Used

PID   Product/Item Description

Pos: 1200	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

User Option (Usage): Used

To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	**Item Description Type**	M	ID	1/1	Must use

Description: Code indicating the format of a description

Code	Name
F	Free-form

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	352	**Description**	X	AN	1/80	Must use

Description: A free-form description to clarify the related data elements and their content
Part Number Description

Syntax Rules:
1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.
4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

Semantics:
1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:
1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

User Note 1:

Example:
*PID*F****LATCH~*

REF   Reference Identification (Packing List Number)

Pos: 1800	Max: >1
Detail - Optional	
Loop: IT1	**Elements: 2**

User Option (Usage): Must use

To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code	Name
PK	Packing List Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	X	AN	1/30	Must use

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

User Note 1:
This Reference number is used to verify the receipt and must match the value of the REF_02 having REF_01 = "PK" of the corresponding 856 transaction.

Constrains regarding this reference number:
1) No leading spaces
2) If using alpha characters, please use UPPER CASE

Syntax Rules:
1. R0203 - At least one of REF02 or REF03 is required.

Semantics:
1. REF04 contains data relating to the value cited in REF02.

User Note 1:

Example:
*REF*PK*811393-87113~*

REF   Reference Identification (Shipment I.D. Number)

Pos: 1900	**Max: >1**
Detail - Optional	
Loop: IT1	**Elements: 2**

User Option (Usage): Used

To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code	Name
SI	Shipper's Identifying Number for Shipment (SID)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	X	AN	1/30	Must use

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

User Note 1:
This reference number is used to verify receipt and must match the value from BSN_02 of the corresponding 856 transaction.

Syntax Rules:
1. R0203 - At least one of REF02 or REF03 is required.

Semantics:
1. REF04 contains data relating to the value cited in REF02.

User Note 1:

Example:
*REF*SI*328498~*

Loop SAC (Detail)

<div style="border:1px solid black">
Pos: 2700   Repeat: 25
Optional
Loop: SAC   Elements: N/A
</div>

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
2800	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used

SAC (Detail)

Service, Promotion, Allowance, or Charge Information

Pos: 2800   Max: 1
Detail - Optional
Loop: SAC   Elements: 9

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC01	248	**Allowance or Charge Indicator**	M	ID	1/1	Must use

Description: Code which indicates an allowance or charge for the service specified

Code	Name
A	Allowance
C	Charge

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	X	ID	4/4	Must use

Description: Code identifying the service, promotion, allowance, or charge

Code	Name
E970	Onetime Tooling
F150	Packaging Service
F650	Preparation
G530	Rework

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC05	610	**Amount**	O	N2	1/15	Must use

Description: Monetary amount
User Note 1:
2 implied decimal places

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC06	378	**Allowance/Charge Percent Qualifier**	X	ID	1/1	Used

Description: Code indicating on what basis allowance or charge percent is calculated

Code	Name
2	Item Net Cost

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC07	332	**Percent**	X	R	1/6	Used

Description: Percent expressed as a percent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC08	118	**Rate**	O	R	1/9	Used

Description: Rate expressed in the standard monetary denomination for the currency specified

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC09	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used

Description: Code specifying the units in

which a value is being expressed, or manner
in which a measurement has been taken
All valid standard codes are used.

SAC10	380	**Quantity**	X	R	1/15		Used

Description: Numeric value of quantity

SAC12	331	**Allowance or Charge Method of Handling Code**	O	ID	2/2		Must use

Description: Code indicating method of
handling for an allowance or charge

Code	**Name**
02	Off Invoice
06	Charge to be Paid by Customer

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

User Note 1:

*SAC*C*F150***996****EA*3**06~*

TDS Total Monetary Value Summary

Pos: 0100	**Max: 1**
Summary - Mandatory	
Loop: N/A	**Elements: 1**

User Option (Usage): Must use

To specify the total invoice discounts and amounts

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TDS01	610	**Amount**	M	N2	1/15	Must use

Description: Monetary amount
User Note 1:
Total Invoice Amount - two implied decimal places

Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2. TDS02 indicates the amount upon which the terms discount amount is calculated.
3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4. TDS04 indicates the total amount of terms discount.

Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

User Note 1:

Example:
*TDS*7696~*

TXI Tax Information

Pos: 0200	Max: 10
Summary - Optional	
Loop: N/A	Elements: 6

User Option (Usage): Used

To specify tax information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI01	963	**Tax Type Code**	M	ID	2/2	Must use

Description: Code specifying the type of tax

Code	Name
GS	Goods and Services Tax
SP	State/Provincial Tax
SU	Sales and Use Tax

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI02	782	**Monetary Amount**	X	R	1/18	Used

Description: Monetary amount

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI03	954	**Percent**	X	R	1/10	Used

Description: Percentage expressed as a decimal

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI04	955	**Tax Jurisdiction Code Qualifier**	X	ID	2/2	Must use

Description: Code identifying the source of the data used in tax jurisdiction code

Code	Name
CD	Customer defined
VD	Vendor defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI05	956	**Tax Jurisdiction Code**	X	AN	1/10	Must use

Description: Code identifying the taxing jurisdiction

User Note 1:
GST REGISTRATION NUMBER
PST EXEMPTION NUMBER

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI06	441	**Tax Exempt Code**	X	ID	1/1	Used

Description: Code identifying exemption status from sales and use tax

Code	Name
1	Yes (Tax Exempt)
2	No (Not Tax Exempt)

Syntax Rules:

1. R020306 - At least one of TXI02, TXI03 or TXI06 is required.
2. P0405 - If either TXI04 or TXI05 is present, then the other is required.
3. C0803 - If TXI08 is present, then TXI03 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

User Note 1:

TXI_02, TXI_03, or TXI_06 is required when TXI segment is used

CAD   Carrier Detail

Pos: 0300	Max: 1
Summary - Optional	
Loop: N/A	**Elements: 1**

User Option (Usage): Used

To specify transportation details for the transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD04	140	**Standard Carrier Alpha Code**	X	ID	2/4	Must use

Description: Standard Carrier Alpha Code
User Note 1:
Service Parts Only
"UPS" (United Parcel Service)
Mandatory for UPS Freight Charges

Syntax Rules:

1. R0504 - At least one of CAD05 or CAD04 is required.
2. C0708 - If CAD07 is present, then CAD08 is required.

Loop SAC (Summary)

Pos: 0500	**Repeat: 25**
Optional	
Loop: SAC Elements: N/A	

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0600	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used

User Note 1:

*SAC*C*H550***570*******06~*

SAC
(Summary)

Service, Promotion, Allowance, or Charge Information

Pos: 0600   **Max: 1**
  Summary - Optional
Loop: SAC   **Elements: 9**

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC01	248	**Allowance or Charge Indicator**	M	ID	1/1	Must use

Description: Code which indicates an allowance or charge for the service specified

Code	Name
A	Allowance
C	Charge

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	X	ID	4/4	Must use

Description: Code identifying the service, promotion, allowance, or charge

Code	Name
A880	Cancellation Charge
C880	Expediting Premium
D240	Freight
D500	Handling
D530	Hazardous Cargo Charge
E190	Labor Charges
F180	Pallet
G470	Restocking Charge
G510	Returnable Container
G970	Small Order Charge
H550	Surcharge
I100	Tooling Rework Charge
I530	Volume Discount

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC05	610	**Amount**	O	N2	1/15	Must use

Description: Monetary amount
User Note 1:
2 implied decimal places

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC06	378	**Allowance/Charge Percent Qualifier**	X	ID	1/1	Used

Description: Code indicating on what basis allowance or charge percent is calculated

Code	Name
2	Item Net Cost

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC07	332	**Percent**	X	R	1/6	Used

		Description: Percent expressed as a percent				
SAC08	118	**Rate**	O	R	1/9	Used
		Description: Rate expressed in the standard monetary denomination for the currency specified				
SAC09	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**				
SAC10	380	**Quantity**	X	R	1/15	Used
		Description: Numeric value of quantity				
SAC12	331	**Allowance or Charge Method of Handling Code**	O	ID	2/2	Must use
		Description: Code indicating method of handling for an allowance or charge				

Code	Name
02	Off Invoice
06	Charge to be Paid by Customer

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" -

Dollars in SAC09.

User Note 1:

Example:
SAC*C*D240***705*******06

CTT   Transaction Totals

Pos: 1100	**Max: 1**
Summary - Optional	
Loop: N/A	**Elements: 1**

User Option (Usage): Must use

To transmit a hash total for a specific element in the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items**	M	N0	1/6	Must use
		Description: Total number of line items in the transaction set				

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

User Note 1:

*CTT*1~*

SE — Transaction Set Trailer

Pos: 1200	**Max: 1**
Summary - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments**	M	N0	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	**Transaction Set Control Number**	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

1. SE is the last segment of each transaction set.

GE   Functional Group Trailer

Pos: 0100	Max: 1
Not Defined - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

To indicate the end of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6	Must use
		Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				
GE02	28	**Group Control Number**	M	N0	1/9	Must use
		Description: Assigned number originated and maintained by the sender				

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA   Interchange Control Trailer

Pos: 0200	**Max: 1**
Not Defined - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5	Must use
		Description: A count of the number of functional groups included in an interchange				
IEA02	I12	**Interchange Control Number**	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				