



June 29, 2011

Dear Supplier Partner,

Electronic Data Interchange (EDI) has proven to be one of the outstanding drivers in retail information technology systems resulting in *time and cost savings* for both retailers and suppliers. With these technologies and guidelines, Pep Boys can expedite merchandise flow to the selling floor, manage inventory better and process payments efficiently. Pep Boys continues to move forward with our initiative for all supplier partners to become 100% EDI compliant.

Please review the EDI requirements attached and return the sign off form within 14 days of receiving this request. If necessary forward this request to the appropriate management level individual for approval

If you are unable to meet the EDI requirements return the sign off form and state "not compliant". We will work with you to contact an EDI provider to help you implement EDI requirements.

Providing a timely response to this request will avoid non – compliant charge back penalties.

Please return your responses to paul_heidler@pepboys.com .

For a full review of our EDI, requirements and standards please reference our website at <http://info.pepboys.com/> .

Best regards,

Diane Pizzarelli

*Manager, Supplier Relations
215- 430-9095 ext. 6785*



2011 EDI UPDATES

7/5/11

New web portal allowance code W220 has been added to the available codes in the SAC02 segments in the 810 version 4010 and 4030.

7/5/11

New store list has been updated

9/14/11

New store list has been updated

9/27/11

EDI letter updated

2012 EDI UPDATES

7/23/12

Special Order EDI requirements updated – New special order ASN (856) and QOH (846) mapping guidelines have been added to the PDF. These documents will be rolled out to our existing special order vendors and will be a part of our new vendor special order testing.



EDI Requirements Sign Off Document

Please complete, sign and email this document to: suppliercompliance@pepboys.com

Pep Boys Vendor Number: _____

Supplier Name: _____

Address: _____

City, State, Zip: _____

Testing EDI Contact: _____ Phone: _____ E-mail: _____

Backup EDI Contact: _____ Phone: _____ E-mail: _____

1. Confirmed EDI capable and ready to test the 850** Test Date: _____ Contact: _____

2. Confirmed to be EDI capable and ready to test the 997 Test Date: _____ Contact: _____

3. Confirmed to be EDI capable and ready to test the 855 Test Date: _____ Contact: _____

4. Confirmed to be EDI capable and ready to test the 810 Test Date: _____ Contact: _____

5. Confirm transmit of 855 PO Acknowledgement within 24 hours of receipt of 850 PO: YES _____ NO _____

6. Are you capable of generating an 856 for special orders: YES _____ NO _____

7. Are you capable of providing QOH information: YES _____ NO _____

7A. How do you provide QOH information: 846 _____ FLAT FILE _____ OTHER _____

If other please provide details below

	VENDOR'S INFORMATION	PEP BOYS INFORMATION
8. Value Added Network (VAN):		INOVIS
9. Test mailbox Qualifier/ID:		PROVIDED UPON TESTING
10. Production mailbox Qualifier/ID (if different than test):		01 / 007914401
11. EDI Translation Software Pkg/3rd Party Supplier:		INOVIS

12. X12 Standards Version: 4030 VERSION SUPPORTED ONLY

13. If you are not EDI capable please provide explanation below.

I have read Pep Boys EDI Requirements and will validate that the above test dates will be met in order to comply with the EDI Requirements.

Supplier Representative Signature

Title

Date



ADDITIONS FOR SPECIAL ORDER EDI TRANSACTIONS

Pep Boys has updated its mapping of the EDI X12 850 Purchase Order document to accommodate the transmission Special Orders. We have made the following changes:

1. Added the PER and PID segments.
2. Added the code 'OS' for Special Orders in the BEG02.
3. Added the Method of Delivery Code in the PO1 segment.

In addition, we have the following requirements:

1. All EDI 850 Purchase Order documents must be acknowledged with an EDI X12 997 Functional Acknowledgement.
2. In addition, all Special Order documents must be acknowledged with an EDI X12 855 Purchase Order Acknowledgement document.
3. Within the 855 document, all Purchase Order lines must be acknowledged.
4. Pep Boys has a policy of shipping lines complete; we don't accept backorders on Special Orders.
5. If a particular line item cannot be filled completely, the 855 document should contain 0 in the ACK02 element.
6. Purchase Order Acknowledgements will be returned either the same day or within 24 hours of receipt of the PO.
7. Pep Boys 855 requires a 3 digit product code. This is a specific code for your company. Please contact Pep Boys EDI Coordinator to receive your code before testing.

Special Order Delivery Methods

These codes are sent out on the EDI PO and is required on the inbound 855

Code	Name	Fed Ex Service Type
01	Ships in 3 - 5 business days	Fedex Ground
02	Ships next business day	Fedex Priority Overnight
03	Expedite - 24/48 hour guarantee	Fedex Priority Overnight
04	Two Day Air	Fedex 2Day
05	International Ship	Fedex International Economy
06	Your Truck	
07	Pickup	



850 Purchase Order - v4030

X12/V4030/850

Version: 1.1 Final

Author:	Inovis
Publication:	April 1, 2008
Modified:	06/30/2008



Revision History

Date	Version	Revision	Approved By
April 1, 2008	1.0	Initial Publication	Diane Pizzarelli
June 30, 2008	1.1	Added BEG06 Added explanatory notes for special orders.	Diane Pizzarelli

850

Purchase Order

Functional Group=**PO**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) 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 placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

User Note:

PLEASE NOTE THAT IN 4030 THE ISA11 NO LONGER CONTAINS THE INTERCHANGE CONTROL STANDARDS IDENTIFIER. IT IS NOW USED TO IDENTIFY THE REPETITION SEPARATOR.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use
0100	ST	Transaction Set Header	M	1			Must use
0200	BEG	Beginning Segment for Purchase Order	M	1			Must use
0500	REF	Reference Identification	O	>1			Used
0600	PER	Administrative Communications Contact	O	3			Used
1300	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used
1500	DTM	Date/Time Reference	O	10			Used
LOOP ID - N1					200		
3100	N1	Name	O	1			Used
3200	N2	Additional Name Information	O	2			Used
3300	N3	Address Information	O	2			Used
3400	N4	Geographic Location	O	>1			Used
3600	PER	Administrative Communications Contact	O	>1			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - PO1					100000	N2/0100L	
0100	PO1	Baseline Item Data	M	1		N2/0100	Must use
LOOP ID - PID					1000		
0500	PID	Product/Item Description	O	1			Used

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - CTT					1	N3/0100L	
0100	CTT	Transaction Totals	O	1		N3/0100	Used
0300	SE	Transaction Set Trailer	M	1			Must use
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

ISA Interchange Control Header

Pos:	Max: 1
Heading - 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier Description: Code identifying the type of information in the Authorization Information	M	ID	2/2	Must use
		Code Name				
		00 No Authorization Information Present (No Meaningful Information in I02)				
ISA02	I02	Authorization Information 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)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code identifying the type of information in the Security Information	M	ID	2/2	Must use
		Code Name				
		00 No Security Information Present (No Meaningful Information in I04)				
ISA04	I04	Security Information 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)	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
		Code Name				
		01 Duns (Dun & Bradstreet)				
		ZZ Mutually Defined				
ISA06	I06	Interchange Sender ID 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 User Note: <i>Inovis Test: CLPEPBOYS</i> <i>Pep Boys Test: 007914401T</i> <i>Production: 007914401</i>	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier Description: Code indicating the system/method of code structure used to	M	ID	2/2	Must use

		designate the sender or receiver ID element being qualified All valid standard codes are used.				
ISA08	I07	Interchange Receiver ID 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	M	AN	15/15	Must use
ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use
ISA11	I65	Repetition Separator Description: Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator	M		1/1	Must use
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments Code Name 00403 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1999	M	ID	5/5	Must use
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code indicating sender's request for an interchange acknowledgment Code Name 1 Interchange Acknowledgment Requested	M	ID	1/1	Must use
ISA15	I14	Usage Indicator Description: Code indicating whether data enclosed by this interchange envelope is test, production or information Code Name P Production Data T Test Data	M	ID	1/1	Must use
ISA16	I15	Component Element Separator 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	M		1/1	Must use

GS**Functional Group Header**

Pos:	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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

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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Must use
		Code Name PO Purchase Order (850)				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners User Note: <i>Inovis Test: CLPEPBOYS</i> <i>Pep Boys Test: 007914401T</i> <i>Production: 007914401</i>	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	Date Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M	DT	8/8	Must use
GS05	337	Time 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)	M	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated	M	N0	1/9	Must use

		and maintained by the sender				
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				
		<u>Code</u>				
		<u>Name</u>				
		X				Accredited Standards Committee X12
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				
		<u>Code</u>				
		<u>Name</u>				
		004030				Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1999

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

Semantics:

1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

Example:

ST*850*001

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must use
		Code Name				
		850 Purchase Order				
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

BEG Beginning Segment for Purchase Order

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

User Option (Usage): Must use

To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates

Semantics:

1. BEG05 is the date assigned by the purchaser to purchase order.

Example:

```
BEG*00*NE*N8095301**20080115~
```

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BEG01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set	M	ID	2/2	Must use
		Code Name 00 Original				
BEG02	92	Purchase Order Type Code Description: Code specifying the type of Purchase Order	M	ID	2/2	Must use
		Code Name NE New Order OS Special Order				
BEG03	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	8/8	Must use
BEG05	373	Date Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M	DT	8/8	Must use
BEG06	367	Contract Number Description: Contract number User Note: <i>Pep Boys-assigned Vendor Number. Used for Special Orders only.</i>	O	AN	10/10	Used

REF Reference Identification

Pos: 0500	Max: >1
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

To specify identifying information

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.

Example:

```
REF*IA*1234567890~
REF*L1**FREE-FORM MESSAGE~
```

User Note:

No REF segments will be sent for Special Orders.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		Code Name				
		IA Internal Vendor Number				
		L1 Letters or Notes				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/10	Used
		User Note: Used for vendor number assigned by Pep Boys (DC and Drop Ship only) only when REF01=IA				
REF03	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/60	Used
		User Note: Used for free-form message only when REF01=L1				

PER Administrative Communications Contact

Pos: 0600	Max: 3
Heading - Optional	
Loop: N/A	Elements: 4

User Option (Usage): Used

To identify a person or office to whom administrative communications should be directed

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

Example:

PER*CW*ABC SUPPLY*FX*8005551234~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named	M	ID	2/2	Must use
		Code Name CW Confirmed With				
PER02	93	Name Description: Free-form name	O	AN	1/30	Used
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number	X	ID	2/2	Used
		Code Name FX Facsimile				
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/10	Used

ITD Terms of Sale/Deferred Terms of Sale

Pos: 1300	Max: >1
Heading - Optional	
Loop: N/A	Elements: 5

User Option (Usage): Used

To specify terms of sale

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.

Example:

*ITD*01*3*2**60**90*

User Note:

No ITD Segment will be sent for Special Orders.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD01	336	Terms Type Code Description: Code identifying type of payment terms Code Name 01 Basic	O	ID	2/2	Used
ITD02	333	Terms Basis Date Code Description: Code identifying the beginning of the terms period Code Name 3 Invoice Date	O	ID	1/2	Used
ITD03	338	Terms Discount Percent 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	O	R	1/6	Used
ITD05	351	Terms Discount Days Due Description: Number of days in the terms discount period by which payment is due if terms discount is earned	X	N0	1/3	Used
ITD07	386	Terms Net Days Description: Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Used

DTM Date/Time Reference

Pos: 1500	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To specify pertinent dates and times

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.

Example:

```
DTM*002*20080120~
DTM*010*20080115~
DTM*938*20080229~
```

User Note:

002 - Delivery Requested Date - is used for standard orders only.
 010 - Requested Ship Date - is used for standard orders only.
 938 - Order Date - is used for special orders only.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Must use
		Code Name				
		002 Delivery Requested				
		010 Requested Ship				
		938 Order				
DTM02	373	Date Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X	DT	8/8	Used

N1**Name**

Pos: 3100	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

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

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.

Example:

```
N1*ST*PEP BOYS*92*14011~
```

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual Code Name ST Ship To	M	ID	2/3	Must use
N102	93	Name Description: Free-form name	X	AN	1/60	Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) User Note: 92 - Assigned by Buyer - used for standard orders only. ZZ - Mutually Defined - used for special orders only. Code Name 92 Assigned by Buyer or Buyer's Agent ZZ Mutually Defined	X	ID	1/2	Used
N104	67	Identification Code Description: Code identifying a party or other code User Note: Pep Boys Store Number	X	AN	2/5	Used

N2

Additional Name Information

Pos: 3200	Max: 2
Heading - Optional	
Loop: N1	Elements: 1

User Option (Usage): Used

To specify additional names

Example:

*N2*ATLANTA DIST CNTR~*

User Note:

N2 segment not sent for special orders.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name Description: Free-form name	M	AN	1/60	Must use

N3

Address Information

Pos: 3300	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

To specify the location of the named party

Example:

*N3*2640 EAST 45TH STREET~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information	M	AN	1/55	Must use
N302	166	Address Information Description: Address information	O	AN	1/55	Used

N4 Geographic Location

Pos: 3400	Max: >1
Heading - Optional	
Loop: N1	Elements: 3

User Option (Usage): Used

To specify the geographic place of the named party

Syntax Rules:

1. E0207 - Only one of N402 or N407 may be present.
2. C0605 - If N406 is present, then N405 is required.
3. C0704 - If N407 is present, then N404 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.

Example:

N4*LOS ANGELES*CA*90058~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name Description: Free-form text for city name	O	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	X	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used

PER Administrative Communications Contact

Pos: 3600	Max: >1
Heading - Optional	
Loop: N1	Elements: 3

User Option (Usage): Used

To identify a person or office to whom administrative communications should be directed

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

Example:

```
PER*ZZ**TE*2155551212~
PER*OC**AD*3055551234~
```

User Note:

PER01 qualifier OC and PER03 qualifier AD will be used for special orders only.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named Code Name OC Order Contact ZZ Mutually Defined	M	ID	2/2	Must use
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number Code Name AD Delivery Location Phone TE Telephone	X	ID	2/2	Used
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/10	Used

PO1 Baseline Item Data

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: PO1	Elements: 13

User Option (Usage): Must use

To specify basic and most frequently used line item data

Syntax Rules:

1. C0302 - If PO103 is present, then PO102 is required.
2. C0504 - If PO105 is present, then PO104 is required.
3. P0607 - If either PO106 or PO107 is present, then the other is required.
4. P0809 - If either PO108 or PO109 is present, then the other is required.
5. P1011 - If either PO110 or PO111 is present, then the other is required.
6. P1213 - If either PO112 or PO113 is present, then the other is required.
7. P1415 - If either PO114 or PO115 is present, then the other is required.
8. P1617 - If either PO116 or PO117 is present, then the other is required.
9. P1819 - If either PO118 or PO119 is present, then the other is required.
10. P2021 - If either PO120 or PO121 is present, then the other is required.
11. P2223 - If either PO122 or PO123 is present, then the other is required.
12. P2425 - If either PO124 or PO125 is present, then the other is required.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. PO101 is the line item identification.
3. PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Example:

*Standard Order - PO1*001*180*EA***BP*8006747*VP*PF52*UK*03666624066453~
Special Order - PO1*001*1*EA*****VP*PF52***TP*UMF*MD*01~*

User Note:

*PO106/PO107 and PO110/PO111 not sent for special orders.
PO112 thru PO115 not sent for standard orders.*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
PO102	330	Quantity Ordered Description: Quantity ordered	X	R	1/15	Used
PO103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Used
		Code Name				
		EA Each				
PO106	235	Product/Service ID Qualifier Description: Code identifying the	X	ID	2/2	Used

			type/source of the descriptive number used in Product/Service ID (234)				
		<u>Code</u>	<u>Name</u>				
		BP	Buyer's Part Number				
PO107	234	Product/Service ID		X	AN	1/10	Used
		Description:	Identifying number for a product or service				
PO108	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)				
		<u>Code</u>	<u>Name</u>				
		VP	Vendor's (Seller's) Part Number				
PO109	234	Product/Service ID		X	AN	1/20	Used
		Description:	Identifying number for a product or service				
PO110	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)				
		<u>Code</u>	<u>Name</u>				
		UK	EAN/UCC - 14				
		Description:	Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)				
PO111	234	Product/Service ID		X	AN	14/14	Used
		Description:	Identifying number for a product or service				
PO112	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)				
		<u>Code</u>	<u>Name</u>				
		TP	Product Type Code				
PO113	234	Product/Service ID		X	AN	1/48	Used
		Description:	Identifying number for a product or service				
PO114	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)				
		<u>Code</u>	<u>Name</u>				
		MD	Method of Delivery Code				
PO115	234	Product/Service ID		X	AN	1/48	Used
		Description:	Identifying number for a product or service				
		<u>Code</u>	<u>Name</u>				
		01	Ships in 3 - 5 Business Days				
		02	Ships Next Business Day				
		03	Expedite - 24/48 Hour Guarantee				
		04	Two Day Air				
		05	International Ship				
		06	Your Truck				
		07	Pickup				

PID Product/Item Description

Pos: 0500	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

User Option (Usage): Used

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

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.

Example:

*PID*F****PART DESCRIPTION~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type Description: Code indicating the format of a description	M	ID	1/1	Must use
		Code Name F Free-form				
PID05	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/25	Used

CTT Transaction Totals

Pos: 0100	Max: 1
Summary - Optional	
Loop: CTT	Elements: 2

User Option (Usage): Used

To transmit a hash total for a specific element 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.

Example:

CTT*5*90~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	N0	1/6	Must use
CTT02	347	Hash Total Description: Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash Total User Note: <i>Total Quantity in Line Items</i>	O	R	1/10	Used

SE**Transaction Set Trailer**

Pos: 0300	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)

Comments:

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

Example:

SE*15*001~

Element Summary:

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

GE Functional Group Trailer

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

User Option (Usage): Must use

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

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.

Element Summary:

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

IEA Interchange Control Trailer

Pos:	Max: 1
Summary - 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:

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



855 Purchase Order Acknowledgment - v4030

X12/V4030/855

Version: 1.0 Final

Author: Inovis
Publication: April 1, 2008



Revision History

Date	Version	Revision	Approved By
April 1, 2008	1.0	Initial Publication	Diane Pizzarelli

855

Purchase Order Acknowledgment

Functional Group=PR

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Acknowledgment Transaction Set (855) 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 a seller's acknowledgment of a buyer's purchase order. This transaction set can also be used as notification of a vendor generated order. This usage advises a buyer that a vendor has or will ship merchandise as prearranged in their partnership.

User Note:

PLEASE NOTE THAT IN 4030 THE ISA11 NO LONGER CONTAINS THE INTERCHANGE CONTROL STANDARDS IDENTIFIER. IT IS NOW USED TO IDENTIFY THE REPETITION SEPARATOR.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use
0100	ST	Transaction Set Header	M	1			Must use
0200	BAK	Beginning Segment for Purchase Order Acknowledgment	M	1			Must use
LOOP ID - N1			-	-	200	-	-
3000	N1	Name	O	1			Must use

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - PO1			-	-	100000	N2/0100L	-
0100	PO1	Baseline Item Data	O	1		N2/0100	Must use
LOOP ID - ACK			-	-	104	-	-
2700	ACK	Line Item Acknowledgment	O	1			Must use
LOOP ID - N1			-	-	200	-	-
3700	N1	Name	O	1			Must use

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - CTT			-	-	1	N3/0100L	-
0100	CTT	Transaction Totals	O	1		N3/0100	Must use
0300	SE	Transaction Set Trailer	M	1			Must use
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

ISA Interchange Control Header

Pos:	Max: 1
Heading - 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier Description: Code identifying the type of information in the Authorization Information	M	ID	2/2	Must use
		Code Name				
		00 No Authorization Information Present (No Meaningful Information in I02)				
ISA02	I02	Authorization Information 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)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code identifying the type of information in the Security Information	M	ID	2/2	Must use
		Code Name				
		00 No Security Information Present (No Meaningful Information in I04)				
ISA04	I04	Security Information 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)	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	M	ID	2/2	Must use
ISA06	I06	Interchange Sender ID 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	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
		Code Name				
		01 Duns (Dun & Bradstreet)				
		ZZ Mutually Defined				
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use

		<p>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</p> <p>User Note: <i>Inovis Test: CLPEPBOYS</i> <i>Pep Boys Test: 007914401T</i> <i>Pep Boys Production: 007914401</i></p>										
ISA09	I08	<p>Interchange Date Description: Date of the interchange</p>	M	DT	6/6	Must use						
ISA10	I09	<p>Interchange Time Description: Time of the interchange</p>	M	TM	4/4	Must use						
ISA11	I65	<p>Repetition Separator Description: Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator</p>	M		1/1	Must use						
ISA12	I11	<p>Interchange Control Version Number Description: Code specifying the version number of the interchange control segments</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>00403</td> <td>Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1999</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	00403	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1999	M	ID	5/5	Must use		
<u>Code</u>	<u>Name</u>											
00403	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1999											
ISA13	I12	<p>Interchange Control Number Description: A control number assigned by the interchange sender</p>	M	N0	9/9	Must use						
ISA14	I13	<p>Acknowledgment Requested Description: Code indicating sender's request for an interchange acknowledgment All valid standard codes are used.</p>	M	ID	1/1	Must use						
ISA15	I14	<p>Usage Indicator Description: Code indicating whether data enclosed by this interchange envelope is test, production or information</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Production Data</td> </tr> <tr> <td>T</td> <td>Test Data</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	P	Production Data	T	Test Data	M	ID	1/1	Must use
<u>Code</u>	<u>Name</u>											
P	Production Data											
T	Test Data											
ISA16	I15	<p>Component Element Separator 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</p>	M		1/1	Must use						

GS**Functional Group Header**

Pos:	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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

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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Must use
		Code Name PR Purchase Order Acknowledgment (855)				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners User Note: <i>Inovis Test: CLPEPBOYS</i> <i>Pep Boys Test: 007914401T</i> <i>Pep Boys Production: 007914401</i>	M	AN	2/15	Must use
GS04	373	Date Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M	DT	8/8	Must use
GS05	337	Time 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)	M	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	NO	1/9	Must use

GS07	455	Responsible Agency Code Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480	M	ID	1/2	Must use
		<u>Code</u> <u>Name</u> X Accredited Standards Committee X12				
GS08	480	Version / Release / Industry Identifier Code 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	M	AN	1/12	Must use
		<u>Code</u> <u>Name</u> 004030 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1999				

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

Semantics:

1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

Example:

ST*855*0001~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must use
		Code Name				
		855 Purchase Order Acknowledgment				
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

BAK Beginning Segment for Purchase Order Acknowledgment

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

User Option (Usage): Must use

To indicate the beginning of the Purchase Order Acknowledgment Transaction Set and transmit identifying numbers and dates

Semantics:

1. BAK04 is the date assigned by the purchaser to purchase order.
2. BAK08 is the seller's order number.
3. BAK09 is the date assigned by the sender to the acknowledgment.

Example:

*BAK*00*AC*1234567890*20080115~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BAK01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set <u>Code</u> <u>Name</u> 00 Original	M	ID	2/2	Must use
BAK02	587	Acknowledgment Type Description: Code specifying the type of acknowledgment <u>Code</u> <u>Name</u> AC Acknowledge - With Detail and Change	M	ID	2/2	Must use
BAK03	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	10/10	Must use
BAK04	373	Date Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M	DT	8/8	Must use

N1**Name**

Pos: 3000	Max: 1
Heading - Optional	
Loop: N1	Elements: 3

User Option (Usage): Must use

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

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.

Example:

N1*ST**ZZ*1234~

N1*VN**ZZ*000123456789~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual Code Name ST Ship To VN Vendor	M	ID	2/3	Must use
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) Code Name ZZ Mutually Defined	X	ID	1/2	Must use
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	4/12	Must use

PO1 Baseline Item Data

Pos: 0100	Max: 1
Detail - Optional	
Loop: PO1	Elements: 8

User Option (Usage): Must use

To specify basic and most frequently used line item data

Syntax Rules:

1. C0302 - If PO103 is present, then PO102 is required.
2. C0504 - If PO105 is present, then PO104 is required.
3. P0607 - If either PO106 or PO107 is present, then the other is required.
4. P0809 - If either PO108 or PO109 is present, then the other is required.
5. P1011 - If either PO110 or PO111 is present, then the other is required.
6. P1213 - If either PO112 or PO113 is present, then the other is required.
7. P1415 - If either PO114 or PO115 is present, then the other is required.
8. P1617 - If either PO116 or PO117 is present, then the other is required.
9. P1819 - If either PO118 or PO119 is present, then the other is required.
10. P2021 - If either PO120 or PO121 is present, then the other is required.
11. P2223 - If either PO122 or PO123 is present, then the other is required.
12. P2425 - If either PO124 or PO125 is present, then the other is required.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. PO101 is the line item identification.
3. PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Example:

*PO1*1*22****VP*9876543*MD*02*RR*123456~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
PO102	330	Quantity Ordered Description: Quantity ordered	X	R	1/15	Must use
PO106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
		Code Name VP Vendor's (Seller's) Part Number				
PO107	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/15	Used
PO108	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				
		MD Method of Delivery Code				
PO109	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
		Code Name				
		01 Ships in 3 - 5 Business Days				
		02 Ships Next Business Day				
		03 Expedite - 24/48 Hour Guarantee				
		04 Two Day Air				
		05 International Ship				
		06 Your Truck				
		07 Pickup				
PO110	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				
		RR Replacement Product Number				
PO111	234	Product/Service ID	X	AN	1/15	Used
		Description: Identifying number for a product or service				

ACK Line Item Acknowledgment

Pos: 2700	Max: 1
Detail - Optional	
Loop: ACK	Elements: 3

User Option (Usage): Must use

To acknowledge the ordered quantities and specify the ready date for a specific line item

Syntax Rules:

1. P0203 - If either ACK02 or ACK03 is present, then the other is required.
2. C0405 - If ACK04 is present, then ACK05 is required.
3. P0708 - If either ACK07 or ACK08 is present, then the other is required.
4. P0910 - If either ACK09 or ACK10 is present, then the other is required.
5. P1112 - If either ACK11 or ACK12 is present, then the other is required.
6. P1314 - If either ACK13 or ACK14 is present, then the other is required.
7. P1516 - If either ACK15 or ACK16 is present, then the other is required.
8. P1718 - If either ACK17 or ACK18 is present, then the other is required.
9. P1920 - If either ACK19 or ACK20 is present, then the other is required.
10. P2122 - If either ACK21 or ACK22 is present, then the other is required.
11. P2324 - If either ACK23 or ACK24 is present, then the other is required.
12. P2526 - If either ACK25 or ACK26 is present, then the other is required.
13. P2728 - If either ACK27 or ACK28 is present, then the other is required.
14. C282729 - If ACK28 is present, then ACK27 and ACK29 are required.

Semantics:

1. ACK29 Industry Reason Code may be used to identify the item status. In addition, it may be used in conjunction with ACK01 to further clarify the status.

Example:

```
ACK*IA*15*EA~
ACK*IR*0*EA~
```

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ACK01	668	Line Item Status Code Description: Code specifying the action taken by the seller on a line item requested by the buyer Code Name IA Item Accepted IR Item Rejected	M	ID	2/2	Must use
ACK02	380	Quantity Description: Numeric value of quantity User Note: <i>If ACK01=IA, ACK02 should equal ordered quantity. If ACK01=IR, ACK02 should equal zero.</i>	X	R	1/15	Must use
ACK03	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name EA Each	X	ID	2/2	Must use

N1

Name

Pos: 3700	Max: 1
Detail - Optional	
Loop: N1	Elements: 3

User Option (Usage): Must use

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

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.

Example:

*N1*MF**92*ABC~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use
		Code Name MF Manufacturer of Goods				
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	X	ID	1/2	Used
		Code Name 92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	3/3	Used

CTT Transaction Totals

Pos: 0100	Max: 1
Summary - Optional	
Loop: CTT	Elements: 1

User Option (Usage): Must use

To transmit a hash total for a specific element 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.

Example:

CTT*4~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	NO	1/6	Must use

SE Transaction Set Trailer

Pos: 0300	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)

Comments:

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

Example:

SE*11*0001~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	NO	1/10	Must use
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

GE Functional Group Trailer

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

User Option (Usage): Must use

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

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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	Number of Transaction Sets Included Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	NO	1/6	Must use
GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	NO	1/9	Must use

IEA Interchange Control Trailer

Pos:	Max: 1
Summary - 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:

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

Sample 855

ISA*00* *00* *ZZ*YOURID *01*007914401 *080115*1450*^^*00403*000000001*1*P*>~
GS*PR*YOURID*007914401*20080115*1450*000001*X*004030~
ST*855*0001~
BAK*00*AC*1234567890*20080115~
N1*ST**ZZ*1234~
N1*VN**ZZ*000123456789~
PO1*1*15****VP*9876543*MD*02*RR*123456~
ACK*IA*15*EA~
N1*MF**92*ABC~
CTT*1~
SE*9*0001~
GE*1*000001~
IEA*1*000000001~



810 Invoice - v4030

X12/V4030/810

Version: 1.1 Final

Author:	Inovis
Publication:	April 1, 2008
Modified:	04/23/2008



Revision History

Date	Version	Revision	Approved By
April 1, 2008	1.0	Initial Publication	Diane Pizzarelli
April 23, 2008	1.1	Added note to REF IA	Diane Pizzarelli

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.

User Note:

PLEASE NOTE THAT IN 4030 THE ISA11 NO LONGER CONTAINS THE INTERCHANGE CONTROL STANDARDS IDENTIFIER. IT IS NOW USED TO IDENTIFY THE REPETITION SEPARATOR.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use
0100	ST	Transaction Set Header	M	1			Must use
0200	BIG	Beginning Segment for Invoice	M	1			Must use
0500	REF	Reference Identification	O	12			Must use
LOOP ID - N1					200		
0700	N1	Name	O	1			Must use
1300	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used
1500	FOB	F.O.B. Related Instructions	O	1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - IT1					200000		
0100	IT1	Baseline Item Data (Invoice)	O	1			Must use
0400	TXI	Tax Information	O	>1			Must use
LOOP ID - SAC					>1		
1800	SAC	Service, Promotion, Allowance, or Charge Information	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	>1			Used
LOOP ID - SAC					>1		
0400	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID - ISS					>1		
0600	ISS	Invoice Shipment Summary	O	1			Used

0700	CTT	Transaction Totals	O	1	N3/0700	Must use
0800	SE	Transaction Set Trailer	M	1		Must use
	GE	Functional Group Trailer	M	1		Must use
	IEA	Interchange Control Trailer	M	1		Must use

ISA Interchange Control Header

Pos:	Max: 1
Heading - 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier Description: Code identifying the type of information in the Authorization Information	M	ID	2/2	Must use
		Code Name				
		00 No Authorization Information Present (No Meaningful Information in I02)				
ISA02	I02	Authorization Information 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)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code identifying the type of information in the Security Information	M	ID	2/2	Must use
		Code Name				
		00 No Security Information Present (No Meaningful Information in I04)				
ISA04	I04	Security Information 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)	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	M	ID	2/2	Must use
ISA06	I06	Interchange Sender ID 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	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
		Code Name				
		01 Duns (Dun & Bradstreet)				
		ZZ Mutually Defined				
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use

		<p>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</p> <p>User Note: <i>Inovis Test: CLPEPBOYS</i> <i>Pep Boys Test: 007914401T</i> <i>Production: 007914401</i></p>										
ISA09	I08	<p>Interchange Date Description: Date of the interchange</p>	M	DT	6/6	Must use						
ISA10	I09	<p>Interchange Time Description: Time of the interchange</p>	M	TM	4/4	Must use						
ISA11	I65	<p>Repetition Separator Description: Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator</p>	M		1/1	Must use						
ISA12	I11	<p>Interchange Control Version Number Description: Code specifying the version number of the interchange control segments</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>00403</td> <td>Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1999</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	00403	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1999	M	ID	5/5	Must use		
<u>Code</u>	<u>Name</u>											
00403	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1999											
ISA13	I12	<p>Interchange Control Number Description: A control number assigned by the interchange sender</p>	M	NO	9/9	Must use						
ISA14	I13	<p>Acknowledgment Requested Description: Code indicating sender's request for an interchange acknowledgment All valid standard codes are used.</p>	M	ID	1/1	Must use						
ISA15	I14	<p>Usage Indicator Description: Code indicating whether data enclosed by this interchange envelope is test, production or information</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Production Data</td> </tr> <tr> <td>T</td> <td>Test Data</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	P	Production Data	T	Test Data	M	ID	1/1	Must use
<u>Code</u>	<u>Name</u>											
P	Production Data											
T	Test Data											
ISA16	I15	<p>Component Element Separator 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</p>	M		1/1	Must use						

GS Functional Group Header

Pos:	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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

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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Must use
		Code Name IN Invoice Information (810)				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
		User Note: <i>Inovis Test: CLPEPBOYS</i> <i>Pep Boys Test: 007914401T</i> <i>Production: 007914401</i>				
GS04	373	Date Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M	DT	8/8	Must use
GS05	337	Time 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)	M	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated	M	N0	1/9	Must use

		and maintained by the sender				
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				
		<u>Code</u>				
		<u>Name</u>				
		X				Accredited Standards Committee X12
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				
		<u>Code</u>				
		<u>Name</u>				
		004030				Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1999

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

Semantics:

1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

Example:

ST*810*1709~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must use
		Code Name				
		810 Invoice				
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

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

Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 is the consolidated invoice number associated with the invoice identified in BIG02. When BIG07 contains code CI (Consolidated Invoice), BIG02 will contain the consolidated invoice number and BIG10 is not used.

Comments:

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

Example:

*BIG*20080215*123456789**N2726001***PR~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIG01	373	Date Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M	DT	8/8	Must use
BIG02	76	Invoice Number Description: Identifying number assigned by issuer	M	AN	1/22	Must use
BIG04	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	O	AN	1/12	Must use
BIG07	640	Transaction Type Code Description: Code specifying the type of transaction	O	ID	2/2	Used
		Code Name PR Product (or Service)				

REF Reference Identification

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

User Option (Usage): Must use

To specify identifying information

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.

Example:

REF*BM*25028001~
REF*IA*0033225100~

User Note:

Two REF segments are required: one for Bill of Lading Number (BM) and one for Internal Vendor Number (IA).

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		Code		Name		
		BM		Bill of Lading Number		
		IA		Internal Vendor Number		
		User Note:				
		Vendor number assigned by Pep Boys				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/12	Must use
		User Note: When REF01=IA, vendor number is comprised of first 7 digits from 850 REF IA followed by 100. The 810 REF IA must be 10 digits long and the final 3 digits are '100'.				

N1

Name

Pos: 0700	Max: 1
Heading - Optional	
Loop: N1	Elements: 3

User Option (Usage): Must use

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

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.

Example:

*N1*ST**92*12345~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use
		Code Name ST Ship To				
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	X	ID	1/2	Must use
		Code Name 92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	2/11	Must use

ITD Terms of Sale/Deferred Terms of Sale

Pos: 1300	Max: >1
Heading - Optional	
Loop: N/A	Elements: 9

User Option (Usage): Used

To specify terms of sale

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:

Formats Accepted by Pep Boys:

1. **XX% XX days (5% 30 Days)** (use ITD 1,2,3,5)
*Example: ITD*08*15*5**30~*
2. **XX% XXth Proxima (5% 15th proxima)** (use ITD 1,2,3,13)
**if delivery date is prior to the 25th of the month, payment is due by the XXth of the next month otherwise payment is due by the 15th of the following mth (Delivery mth+2)*
*Example: ITD*09*1*5*****15~*
3. **XX% XXth Proxima + XX Days (5% 15th proxima+30 days)** (use ITD 1,2,3,5,13)
**if delivery date is prior to the 25th of the month, payment is due by the XXth of the next month plus XX Days otherwise payment is due by the 15th of the following month(Delivery month+2) plus XX Days*
*Example: ITD*09*8*5**30*****15~*
4. **Net XX Days (Net 30 Days)** (use ITD 1,2,7. ITD11 optional)
**a percent of invoice to-be-paid within XX days can be added to each ITD segment if needed(ITD11) 30 days 33%, 60 days 33%, 90 days 34%(total 100%)*
Example:
*ITD*05*2****30****33~*
*ITD*05*2****60****33~*
*ITD*05*2****90****34~*
5. **XX% XX Days, Net XX Days (5% 30 Days, Net 60 Days)** (use ITD 1,2,3,5,7)
*Example: ITD*08*3*5**30**60~*
6. **Net Date (Net 20080228)** (use ITD 1,2,6)
*Example: ITD*05*4****20080228~*
7. **XX% Date, Net Date (5% 20080301, Net 20080315)** (use ITD 1,2,3,4,6)
*Example: ITD*08*4*5*20080301**20080315~*

8. Installments - same as Net Date with % due added(Net 20080228 (xx%)) (use ITD 1,2,6,11)
 *a percent of invoice to-be-paid by the due date can be added to each ITD segment if needed(ITD-11) 20080228 33%, 20080328 33%, 20080428 34%(total 100%)

Example:

ITD*04*2****20080228*****33~
 ITD*04*2****20080328*****33~
 ITD*04*2****20080428*****34~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD01	336	Terms Type Code Description: Code identifying type of payment terms	O	ID	2/2	Must use
		Code Name				
		04 Deferred or Installment				
		05 Discount Not Applicable				
		08 Basic Discount Offered				
		09 Proximo				
ITD02	333	Terms Basis Date Code Description: Code identifying the beginning of the terms period	O	ID	1/2	Must use
		Code Name				
		1 Ship Date				
		2 Delivery Date				
		3 Invoice Date				
		4 Specified Date				
		8 Invoice Transmission Date				
		15 Receipt of Goods				
ITD03	338	Terms Discount Percent 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	O	R	1/6	Used
ITD04	370	Terms Discount Due Date Description: Date payment is due if discount is to be earned expressed in format CCYYMMDD where CC represents the first two digits of the calendar year	X	DT	8/8	Used
ITD05	351	Terms Discount Days Due Description: Number of days in the terms discount period by which payment is due if terms discount is earned	X	N0	1/3	Used
ITD06	446	Terms Net Due Date Description: Date when total invoice amount becomes due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year	O	DT	8/8	Used
ITD07	386	Terms Net Days Description: Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Used
ITD11	342	Percent of Invoice Payable Description: Amount of invoice payable expressed in percent	X	R	1/5	Used
ITD13	765	Day of Month Description: The numeric value of the day of the month between 1 and the maximum day of the month being referenced	X	N0	1/2	Used

FOB F.O.B. Related Instructions

Pos: 1500	Max: 1
Heading - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

To specify transportation instructions relating to shipment

Syntax Rules:

1. C0302 - If FOB03 is present, then FOB02 is required.
2. C0405 - If FOB04 is present, then FOB05 is required.
3. C0706 - If FOB07 is present, then FOB06 is required.
4. C0809 - If FOB08 is present, then FOB09 is required.

Semantics:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.
3. FOB06 is the code specifying the title passage location.
4. FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

Example:

FOB*CC~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	Shipment Method of Payment Description: Code identifying payment terms for transportation charges	M	ID	2/2	Must use
		Code		Name		
		CC		Collect		
				User Note: <i>Freight paid by Pep Boys</i>		
		PC		Prepaid but Charged to Customer		
				User Note: <i>Vendor pays and bears freight, then bills Pep Boys</i>		
		PO		Prepaid Only		
				User Note: <i>Vendor Pays freight, picks carrier, bears freight</i>		
		PP		Prepaid (by Seller)		
				Description: Vendor pays freight, picks carrier		
		TP		Third Party Pay		
				Description: Outside party other than seller or recipient pays freight		

IT1

Baseline Item Data (Invoice)

Pos: 0100	Max: 1
Detail - Optional	
Loop: IT1	Elements: 7

User Option (Usage): Must use

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

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 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.

Example:

IT1**5*EA*4.94**IN*8620482*VN*64102~

User Note:

IT1 is positionally mapped. You MUST send the Buyer's Item Number (IN qualifier) in the IT106/07 pair and you MUST send the Vendor's Item Number (VN qualifier) in the IT108/09 qualifier.

For special orders, if the Buyer's Item Number is not available the Vendor's Item Number may be used with both the IN and VN qualifiers.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT102	358	Quantity Invoiced Description: Number of units invoiced (supplier units)	X	R	1/10	Must use
IT103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X	ID	2/2	Must use
		Code EA		Name Each		

IT104	212	Unit Price Description: Price per unit of product, service, commodity, etc.	X	R	1/17	Must use
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name IN Buyer's Item Number	X	ID	2/2	Must use
IT107	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Must use
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name VN Vendor's (Seller's) Item Number	X	ID	2/2	Must use
IT109	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Must use

TXI Tax Information

Pos: 0400	Max: >1
Detail - Optional	
Loop: IT1	Elements: 2

User Option (Usage): Must use

To specify tax information

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.

Example:

TXI*SA*150.12~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TXI01	963	Tax Type Code Description: Code specifying the type of tax	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		EV Environmental Tax				
		User Note: <i>Fee per gallon on motor oils and petrochemicals</i>				
		FT Federal Excise Tax				
		User Note: <i>Federally mandated charges on specific items</i>				
		OH Other Taxes				
		User Note: <i>Use for disposal fees</i> <i>Use for tires</i>				
		SA State or Provincial Fuel Tax				
		ZZ Mutually Defined				
		User Note: <i>Use for recycle tax</i>				
TXI02	782	Monetary Amount Description: Monetary amount	X	R	1/18	Must use

SAC Service, Promotion, Allowance, or Charge Information

Pos: 1800	Max: 1
Detail - Optional	
Loop: SAC	Elements: 5

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

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 with SAC03 to further define 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.

Example:

SAC*C*B750***995~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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				
		C Charge				
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Used
		Description: Code identifying the service, promotion, allowance, or charge				
		Code Name				
		B750 Core Charge				
		D240 Freight				
		User Note:				
		<i>Charges associated with the transportation or movement of merchandise</i>				
	F050	Other (See related description)				
		User Note:				
		<i>Racing</i>				
	H010	Special Buy				
		User Note:				
		<i>Price reduction due to a special agreement between buyer and sales rep</i>				
	I430	Usage Plan Detail Charge				
		User Note:				
		<i>Planogram</i>				
	ZZZZ	Mutually Defined				
		User Note:				
		<i>ECAT</i>				
SAC05	610	Amount	O	N2	1/15	Used
		Description: Monetary amount				
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				
		3 Discount/Gross				
SAC07	332	Percent	X	R	1/6	Used
		Description: Percent expressed as a percent				

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

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.

Example:

TDS*16466851~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount Description: Monetary amount	M	N2	1/15	Must use

TXI Tax Information

Pos: 0200	Max: >1
Summary - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To specify tax information

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.

Example:

TXI*SA*150.12~

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI01	963	Tax Type Code Description: Code specifying the type of tax	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		EV Environmental Tax				
		User Note: <i>Fee per gallon on motor oils and petrochemicals</i>				
		FT Federal Excise Tax				
		User Note: <i>Federally mandated charges on specific items</i>				
		OH Other Taxes				
		User Note: <i>Use for disposal fees</i> <i>Use for tires</i>				
		SA State or Provincial Fuel Tax				
		ZZ Mutually Defined				
		User Note: <i>Use for recycle tax</i>				
TXI02	782	Monetary Amount Description: Monetary amount	X	R	1/18	Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 0400	Max: 1
Summary - Optional	
Loop: SAC	Elements: 5

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

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 with SAC03 to further define 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.

Example:

```
SAC*C*B750***995~
SAC*A*A260****3*.25~
```

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

<u>Code</u>	<u>Name</u>
A	Allowance
C	Charge

SAC02 1300 **Service, Promotion, Allowance, or Charge Code** X ID 4/4 Used

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

<u>Code</u>	<u>Name</u>
A260	Advertising Allowance
B210	Co-op Credit

User Note:
Agreed \$ amount that manufacturer will reimburse Pep Boys for advertising expenses

B750 Core Charge

C000 Defective Allowance

User Note:
Price reduction for merchandise not reasonably safe for use

C300 Discount - Special

User Note:
Manager's Meeting

C320 Display Allowance

D240 Freight

User Note:
Charges associated with the transportation or movement of merchandise

E730 New Item Allowance

User Note:
Price reduction for carrying a new product

E740 New Store Allowance

User Note:
Price reduction for opening a new store and stocking specific products

F050 Other (See related description)

User Note:
Racing

F670 Price and Marketing Allowance

User Note:
Enhanced Marketing Initiative

F970 Rebate

User Note:
Refund resulting from purchase or tax

G220 Racing Support Initiative

User Note:
Racing Support Initiative

H010 Special Buy

User Note:
Price reduction due to a special agreement between buyer and sales rep

I170 Trade Discount

User Note:
Producer discount given to Pep Boys as a promotional effort

I430 Usage Plan Detail Charge

User Note:
Planogram

I530 Volume Discount

User Note:

ZZZZ *Price reduction in \$ or % based on the quantity of goods purchased*
 Mutually Defined
User Note:
 ECAT

SAC05	610	Amount	O	N2	1/15	Used
		Description: Monetary amount				
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		
		3		Discount/Gross		
SAC07	332	Percent	X	R	1/6	Used
		Description: Percent expressed as a percent				

ISS Invoice Shipment Summary

Pos: 0600	Max: 1
Summary - Optional	
Loop: ISS	Elements: 2

User Option (Usage): Used

To specify summary details of total items shipped in terms of quantity, weight, and volume

Syntax Rules:

1. R010305 - At least one of ISS01, ISS03 or ISS05 is required.
2. P0102 - If either ISS01 or ISS02 is present, then the other is required.
3. P0304 - If either ISS03 or ISS04 is present, then the other is required.
4. P0506 - If either ISS05 or ISS06 is present, then the other is required.

Semantics:

1. ISS07 is the quantity of third party pallets.
2. ISS08 is the gross weight of third party pallets in pounds.

Example:

ISS***27341.00*PN~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISS03	81	Weight Description: Numeric value of weight	X	R	1/10	Used
ISS04	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		PN Pounds Net				

CTT Transaction Totals

Pos: 0700	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

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.

Example:

CTT*26~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	NO	1/6	Must use

SE

Transaction Set Trailer

Pos: 0800	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)

Comments:

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

Example:

SE*223*1709~

Element Summary:

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

GE Functional Group Trailer

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

User Option (Usage): Must use

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

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.

Element Summary:

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

IEA Interchange Control Trailer

Pos:	Max: 1
Summary - 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:

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

Sample 810

ISA*00* 00* *ZZ*YOURID *01*007914401 *080115*1450**^*00403*000000001*1*P*>~
GS*IN*YOURID*007914401*20080115*1450*000001*X*004030~
ST*810*1709~
BIG*20080215*123456789**N2726001***PR~
REF*BM*25028001~
REF*IA*0033225100~
N1*ST**92*12345~
ITD*08*15*5**30~
FOB*CC~
IT1**5*EA*4.94**IN*8620482*VN*64102~
TXI*SA*150.12~
SAC*C*B750***995~
TDS*2470~
ISS***27341.00*PN~
CTT*1~
SE*14*1709~
GE*1*000001~
IEA*1*000000001~



846 Inventory Inquiry/Advice

X12/V4030/846 : 846 Inventory Inquiry/Advice

2/6/2012

SPECIAL NOTE FOR PEPBOYS TRADING PARTNERS:

This transaction must be sent nightly, before 2am, 7 days a week.

846

Inventory Inquiry/Advice

Functional Group=IB

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Inventory Inquiry/Advice Transaction Set (846) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used in the following ways: (1) for a seller of goods and services to provide inventory information to a prospective purchaser, with no obligation to the purchaser to acquire these goods or services; (2) for a representative of a seller of goods and services to supply inventory information to that seller; (3) for one location to supply another location with inventory information; and (4) for an inquiry as to the availability of inventory with no obligation on the seller of goods and services to reserve that inventory.

User Note:

PLEASE NOTE THAT IN 4030 THE ISA11 NO LONGER CONTAINS THE INTERCHANGE CONTROL STANDARDS IDENTIFIER. IT IS NOW USED TO IDENTIFY THE REPETITION SEPARATOR.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use
010	ST	Transaction Set Header	M	1			Must use
020	BIA	Beginning Segment for Inventory Inquiry/Advice	M	1			Must use
060	REF	Reference Identification	O	12			Must use

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<u>LOOP ID - LIN</u>					<u>10000</u>		
010	LIN	Item Identification	M	1			Must use
030	PID	Product/Item Description	O	200			Must use
<u>LOOP ID - SLN</u>					<u>1000</u>		
280	SLN	Subline Item Detail	O	1			Must use
<u>LOOP ID - QTY</u>					<u>99</u>		
320	QTY	Quantity	O	1			Must use

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	1		N3/010	Must use
020	SE	Transaction Set Trailer	M	1			Must use
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

3/010 Number of line items (CTT01) is the accumulation of number of LIN segments.

ISA Interchange Control Header

Pos:	Max: 1
Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information <u>Code</u> <u>Name</u> 00 No Authorization Information Present (No Meaningful Information in I02)	M	ID	2/2	Must use
ISA02	I02	Authorization Information 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)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information <u>Code</u> <u>Name</u> 00 No Security Information Present (No Meaningful Information in I04)	M	ID	2/2	Must use
ISA04	I04	Security Information 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)	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
ISA06	I06	Interchange Sender ID 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	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified <u>Code</u> <u>Name</u> 01 Duns (Dun & Bradstreet) ZZ Mutually Defined	M	ID	2/2	Must use
ISA08	I07	Interchange Receiver ID Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus	M	AN	15/15	Must use

other parties sending to them will use this as a receiving ID to route data to them

User Note:

Inovis Test: CLPEPBOYS
 Pep Boys Test: 007914401T
 Production: 007914401

ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use
ISA11	I65	Repetition Separator Description: Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator	M		1/1	Must use
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments	M	ID	5/5	Must use
		Code Name 00403 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1999				
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) All valid standard codes are used.	M	ID	1/1	Must use
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information	M	ID	1/1	Must use
		Code Name P Production Data T Test Data				
ISA16	I15	Component Element Separator 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	M		1/1	Must use

GS

Functional Group Header

Pos:	Max: 1
Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> IB Inventory Inquiry/Advice (846)				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
		User Note: Inovis Test: CLPEPBOYS Pep Boys Test: 007914401T Production: 007914401				
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	Time 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)	M	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	Responsible Agency Code Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480	M	ID	1/2	Must use
		<u>Code</u> <u>Name</u> X Accredited Standards Committee X12				
GS08	480	Version / Release / Industry Identifier Code 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	M	AN	1/12	Must use

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

<u>Code</u>	<u>Name</u>
004030	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1999

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: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use
Description: Code uniquely identifying a Transaction Set						
CodeList Summary (Total Codes: 298, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		846		Inventory Inquiry/Advice		
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).

Example:

*ST*846*0001*

BIA Beginning Segment for Inventory Inquiry/Advice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

Purpose: To indicate the beginning of an Inventory Inquiry/Advice Transaction Set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIA01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
Description: Code identifying purpose of transaction set						
CodeList Summary (Total Codes: 65, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		08		Status		
BIA02	755	Report Type Code	M	ID	2/2	Must use
Description: Code indicating the title or contents of a document, report or supporting item						
CodeList Summary (Total Codes: 522, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		DD		Distributor Inventory Report		
BIA03	127	Reference Identification	M	AN	1/30	Must use
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
BIA04	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD						

Semantics:

1. BIA03 identifies the number of the inquiry/advice that is transferred.
2. BIA04 identifies the date of the inquiry/advice that is transferred.
3. BIA05 identifies the time of the inquiry/advice that is transferred.

Example:

*BIA*08*DD*3920394930203*20110106*

REF Reference Identification

Pos: 060	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use
Purpose: To specify identifying information

Element Summary:

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

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 1)

<u>Code</u>	<u>Name</u>
IA	Internal Vendor Number

REF02	127	Reference Identification	X	AN	1/30	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Example:

REF*IA*0123456789

Note:

This REF02 is the Pepboys Vendor Number that will be provided by Pepboys to the supplier prior to testing.

Loop Item Identification

Pos: 010	Repeat: 10000
Mandatory	
Loop: LIN	Elements: N/A

User Option (Usage): Must use

Purpose: To specify basic item identification data

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	LIN	Item Identification	M	1		Must use
030	PID	Product/Item Description	O	200		Must use
280		Loop SLN	O		1000	Must use
320		Loop QTY	O		99	Must use

LIN Item Identification

Pos: 010	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 4

User Option (Usage): Must use

Purpose: To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		VN Vendor's (Seller's) Item Number				
LIN03	234	Product/Service ID	M	AN	1/48	Must use
		Description: Mfg Part Number				
LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		TP Product Type Code				
LIN05	234	Product/Service ID	X	AN	1/48	Used
		Description: PBY Code				

Example:

*LIN**VN*MFG Part Number*TP*ABC*

Note: *The LIN05 Represents the PBY Code which will be provided by Pepboys prior to testing*

PID	Product/Item Description	Pos: 030 Max: 200 Detail - Optional Loop: LIN Elements: 2
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User Option (Usage): Must use

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

Element Summary:

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

Description: Code indicating the format of a description

CodeList Summary (Total Codes: 3, Included: 1)

<u>Code</u>	<u>Name</u>
F	Free-form

PID05	352	Description	X	AN	1/80	Must use
-------	-----	--------------------	---	----	------	----------

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

Example:

*PID*F****Part Description*

Loop Subline Item Detail

Pos: 280	Repeat: 1000
	Optional
Loop: SLN	Elements: N/A

User Option (Usage): Used

Purpose: To specify product subline detail item data

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
280	SLN	Subline Item Detail	O	1		Must use

SLN Subline Item Detail

Pos: 280 Max: 1
 Detail - Optional
 Loop: SLN Elements: 4

User Option (Usage): Must use
Purpose: To specify product subline detail item data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN01	350	Assigned Identification	M	AN	1/20	Must use
Description: Alphanumeric characters assigned for differentiation within a transaction set						
SLN03	662	Relationship Code	M	ID	1/1	Must use
Description: Code indicating the relationship between entities						
		<u>Code</u>		<u>Name</u>		
		O		Information Only		
SLN04	380	Quantity	X	R	1/15	Must use
Description: Numeric value of quantity						
SLN05	C001	Composite Unit of Measure	X	Comp		Must use
Description: To identify a composite unit of measure(See Figures Appendix for examples of use)						
SLN05-01	355	Unit or Basis for Measurement Code	M	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						
		<u>Code</u>		<u>Name</u>		
		PK		Package		This code is used to identify Pack Quantity
		PH		Package		This code is used to identify Repack Quantity

Example:

SLN*1**O*10*PK
 SLN*2**O*5*PH

Note:

There should be 2 SLN segments for each line item, one to report "Pack Qty" and one to report "Repack Qty". If both quantities are not available, please send 1 and 1 for the quantities in the SLN04 segments.

Loop Quantity

Pos: 320	Repeat: 99
Optional	
Loop: QTY	Elements: N/A

User Option (Usage): Must use
Purpose: To specify quantity information

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
320	QTY	Quantity	O	1		Must use

QTY Quantity

Pos: 320 Max: 1
 Detail - Optional
 Loop: QTY Elements: 3

User Option (Usage): Must use
Purpose: To specify quantity information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
QTY01	673	Quantity Qualifier	M	ID	2/2	Must use
Description: Code specifying the type of quantity						
		<u>Code</u>		<u>Name</u>		
		33		Quantity Available for Sale (stock quantity)		
QTY02	380	Quantity	X	R	1/15	Must use
Description: Numeric value of quantity						
QTY03	C001	Composite Unit of Measure	O	Comp		Must use
Description: To identify a composite unit of measure(See Figures Appendix for examples of use)						
QTY03-01	355	Unit or Basis for Measurement Code	M	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						
		<u>Code</u>		<u>Name</u>		
		EA		Each		

Example:

QTY*33*123*EA

Note: The QOH must be in eaches

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use

Description: Total number of line items in the transaction set

Example:

*CTT*10*

SE Transaction Set Trailer

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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						

Example:

*SE*10*0001*

SAMPLE 846

ST*846*1820
BIA*08*DD*PEP123456789*20101206
REF*IA*0123456789
LIN**VN*ABC1234*TP*ABC
PID*F****PART1DESCRIPTION
SLN*1**O*1*PK
SLN*2**O*1*PH
QTY*33*24*EA
LIN**VN*234-5678*TP*ABC
PID*F****PART2DESCRIPTION
SLN*1**O*1*PK
SLN*2**O*1*PH
QTY*33*53*EA
LIN**VN*XYZ-789*TP*ABC
PID*F****PART3DESCRIPTION
SLN*1**O*1*PK
SLN*2**O*1*PH
QTY*33*15*EA
CTT*3
SE*20*1820



856 Ship Notice/Manifest - v4030

X12/V4030/856

Version: 1.7

Author:	GXS
Publication:	April 1, 2008
Modified:	March 19, 2012



Revision History

Date	Version	Revision	Approved By
April 1, 2008	1.0	Initial Publication	Diane Pizzarelli
October 20, 2008	1.1	Changed description of data associated with UK qualifier (LIN)	Diane Pizzarelli
May 15, 2009	1.2	Changed MAN02 min/max	Paul Heidler
December 8, 2011	1.4	Modified User notes on the REF, TD3, and LIN segments	Diane Pizzarelli
December 19, 2011	1.5	Modified User notes on the N104 and LIN segments	Diane Pizzarelli
March 2, 2012	1.6	Modified User notes on the REF segment	Diane Pizzarelli
March 19, 2012	1.7	Corrected examples, added Special Order example, clarified user notes for the N1, and LIN segments.	Diane Pizzarelli

856

Ship Notice/Manifest

Functional Group=SH

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

User Note:

PLEASE NOTE THAT IN 4030 THE ISA11 NO LONGER CONTAINS THE INTERCHANGE CONTROL STANDARDS IDENTIFIER. IT IS NOW USED TO IDENTIFY THE REPETITION SEPARATOR.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use
010	ST	Transaction Set Header	M	1			Must use
020	BSN	Beginning Segment for Ship Notice	M	1			Must use

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - HL					200000	C2/010L	
010	HL	Hierarchical Level	M	1		C2/010	Must use
030	SN1	Item Detail (Shipment)	O	1			Used
110	TD1	Carrier Details (Quantity and Weight)	O	20			Must use
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Used
LOOP ID - TD3					12		
1300	TD3	Carrier Details (Equipment)	O	1			Used
150	REF	Reference Identification	O	>1			Must use
200	DTM	Date/Time Reference	O	10			Must use
LOOP ID - N1					200		
220	N1	Name	O	1			Must use
LOOP ID - HL					200000	C2/010L	
010	HL	Hierarchical Level	M	1		C2/010	Must use
050	PRF	Purchase Order Reference	M	1			Must use
LOOP ID - HL					200000	C2/010L	
010	HL	Hierarchical Level	M	1		C2/010	Must use
190	MAN	Marks and Numbers	O	>1			Must use
LOOP ID - HL					200000	C2/010L	
010	HL	Hierarchical Level	M	1		CN2/010	Must use
020	LIN	Item Identification	M	1			Must use

030	SN1	Item Detail (Shipment)	M	1	Must use
060	PO4	Item Physical Details	O	1	Must use
070	PID	Product/Item Description	O	200	Must use
110	TD1	Carrier Details (Quantity and Weight)	O	20	Must use

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	1			Must use
020	SE	Transaction Set Trailer	M	1			Must use
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

ISA Interchange Control Header

Pos:	Max: 1
Heading - 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier Description: Code identifying the type of information in the Authorization Information	M	ID	2/2	Must use
		Code Name				
		00 No Authorization Information Present (No Meaningful Information in I02)				
ISA02	I02	Authorization Information 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)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code identifying the type of information in the Security Information	M	ID	2/2	Must use
		Code Name				
		00 No Security Information Present (No Meaningful Information in I04)				
ISA04	I04	Security Information 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)	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	M	ID	2/2	Must use
ISA06	I06	Interchange Sender ID 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	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
		Code Name				
		01 Duns (Dun & Bradstreet)				
		ZZ Mutually Defined				
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: <i>Inovis Test: CLPEPBOYS</i> <i>Pep Boys Test: 007914401T</i> <i>Production: 007914401</i>				
ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use
ISA11	I65	Repetition Separator Description: Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator	M		1/1	Must use
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments Code Name 00403 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1999	M	ID	5/5	Must use
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	NO	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code indicating sender's request for an interchange acknowledgment All valid standard codes are used.	M	ID	1/1	Must use
ISA15	I14	Usage Indicator Description: Code indicating whether data enclosed by this interchange envelope is test, production or information Code Name P Production Data T Test Data	M	ID	1/1	Must use
ISA16	I15	Component Element Separator 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	M		1/1	Must use

GS Functional Group Header

Pos:	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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

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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Must use
		Code Name SH Ship Notice/Manifest (856)				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
		User Note: <i>Inovis Test: CLPEPBOYS</i> <i>Pep Boys Test: 007914401T</i> <i>Production: 007914401</i>				
GS04	373	Date Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M	DT	8/8	Must use
GS05	337	Time 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)	M	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	NO	1/9	Must use

GS07	455	Responsible Agency Code Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480	M	ID	1/2	Must use
		<u>Code</u> <u>Name</u>				
		X Accredited Standards Committee X12				
GS08	480	Version / Release / Industry Identifier Code 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	M	AN	1/12	Must use
		<u>Code</u> <u>Name</u>				
		004030 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1999				

ST Transaction Set Header

Pos: 010	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

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).

Example:

*ST*856*0001~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must use
		Code Name 856 Ship Notice/Manifest				
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

BSN Beginning Segment for Ship Notice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

User Option (Usage): Must use

To transmit identifying numbers, dates, and other basic data relating to the transaction set

Syntax Rules:

1. C0706 - If BSN07 is present, then BSN06 is required.

Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.
3. BSN06 is limited to shipment related codes.

Comments:

1. BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Example:

*BSN*00*1828458823*20080201*1454*0001~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSN01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 00 Original				
BSN02	396	Shipment Identification Description: A unique control number assigned by the original shipper to identify a specific shipment	M	AN	2/30	Must use
BSN03	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
BSN04	337	Time 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)	M	TM	4/4	Must use
BSN05	1005	Hierarchical Structure Code Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set	M	ID	4/4	Must use
		<u>Code</u> <u>Name</u> 0001 Shipment, Order, Packaging, Item				

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Example:

*HL*1**S~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Must use
		Code Name				
		S Shipment				

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

To specify line-item detail relative to shipment

Syntax Rules:

1. P0506 - If either SN105 or SN106 is present, then the other is required.

Semantics:

1. SN101 is the ship notice line-item identification.

Comments:

1. SN103 defines the unit of measurement for both SN102 and SN104.

Example:

SN1**9*EA~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN102	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set User Note: <i>Must equal the sum of all SN102s at Item Level.</i>	M	R	1/10	Must use
SN103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name EA Each	M	ID	2/2	Must use

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Must use

To specify the transportation details relative to commodity, weight, and quantity

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108 is present, then the other is required.
5. P0910 - If either TD109 or TD110 is present, then the other is required.

Example:

TD1**1****G*30*LB~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD102	80	Lading Quantity Description: Number of units (pieces) of the lading commodity User Note: <i>Must equal total number of MAN segments at the Pack Level</i>	X	N0	1/7	Must use
TD106	187	Weight Qualifier Description: Code defining the type of weight Code Name G Gross Weight	O	ID	1/2	Must use
TD107	81	Weight Description: Numeric value of weight	X	R	1/10	Must use
TD108	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name LB Pound	X	ID	2/2	Must use

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 12
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

To specify the carrier and sequence of routing and provide transit time information

Syntax Rules:

1. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2. C0203 - If TD502 is present, then TD503 is required.
3. C0708 - If TD507 is present, then TD508 is required.
4. C1011 - If TD510 is present, then TD511 is required.
5. C1312 - If TD513 is present, then TD512 is required.
6. C1413 - If TD514 is present, then TD513 is required.
7. C1512 - If TD515 is present, then TD512 is required.

Semantics:

1. TD515 is the country where the service is to be performed.

Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Example:

TD5**2*WATK~

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD502	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	M	ID	1/2	Must use
		Code Name				
		2 Standard Carrier Alpha Code (SCAC)				
TD503	67	Identification Code Description: Code identifying a party or other code	X	AN	2/10	Must use

TD3 Carrier Details (Equipment)

Pos: 1300	Max: 1
Detail - Optional	
Loop: TD3	Elements: 2

User Option (Usage): Used

To specify transportation details relating to the equipment used by the carrier

Syntax Rules:

1. E0110 - Only one of TD301 or TD310 may be present.
2. C0203 - If TD302 is present, then TD303 is required.
3. C0405 - If TD304 is present, then TD305 is required.
4. P0506 - If either TD305 or TD306 is present, then the other is required.

Example:

TD3*TL**12345678~

User Note:

*This segment is **not** required for Special Order shipments.*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD301	40	Equipment Description Code Description: Code identifying type of equipment used for shipment	X	ID	2/2	Must use
		Code Name TL Trailer (not otherwise specified)				
TD303	207	Equipment Number Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	X	AN	1/10	Must use

REF Reference Identification

Pos: 150	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

To specify identifying information

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.

Example:

```
REF*BM*1234567890~
REF*CN*12345ABCDE6789ZZZ
```

User Note:

*Bill of Lading Number (BM) is required.
 Carrier's Ref Number (CN) is required for special orders only. It is the tracking # provided by the carrier.
 Packing List Number (PK) is optional.*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		Code Name				
		BM Bill of Lading Number				
		CN Carrier's Reference Number (PRO/Invoice)				
		PK Packing List Number				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Must use

DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

To specify pertinent dates and times

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.

Example:

DTM*011*20080215~
DTM*371*20080220~

User Note:

*Shipped Date (011) is required.
Current Schedule Delivery Date (067) is optional.
Estimated Arrival Date (371) is required.*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time Code Name 011 Shipped 067 Current Schedule Delivery 371 Estimated Arrival Date	M	ID	3/3	Must use
DTM02	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Must use

N1

Name

Pos: 220	Max: 1
Detail - Optional	
Loop: N1	Elements: 3

User Option (Usage): Must use

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

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.

Example:

N1*ST**92*14026~

Or

N1*ST**92*0766~

User Note:

*For Regular Order ASNs, this will be the 5-digit Distribution Center location code sent on the Purchase Order.
For Special Order ASNs, this will be the 4-digit store number location code sent on the Purchase Order.*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must u
		<u>Code</u> <u>Name</u> ST Ship To				
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	X	ID	1/2	Must use
		<u>Code</u> <u>Name</u> 92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	4/5	Must use

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Example:

*HL*2*1*O~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	M	AN	1/12	Must use
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Must use
		<u>Code</u> <u>Name</u>				
		O Order				

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 1

User Option (Usage): Must use

To provide reference to a specific purchase order

Semantics:

1. PRF04 is the date assigned by the purchaser to purchase order.

Example:

*PRF*S3482451~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Must use

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Example:

*HL*3*2*P~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Must use
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Must use
		Code Name				
		P Pack				

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

To indicate identifying marks and numbers for shipping containers

Syntax Rules:

1. C0605 - If MAN06 is present, then MAN05 is required.
2. P0405 - If either MAN04 or MAN05 is present, then the other is required.

Semantics:

1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Example:

*MAN*GM*00000079405300190343~*

Or

*MAN*AA*000079405300190343~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier Description: Code specifying the application or source of Marks and Numbers (87)	M	ID	1/2	Must use
		Code Name				
		AA SSCC-18				
		GM SSCC-18 and Application Identifier				
MAN02	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	M	AN	18/20	Must use

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Must use
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Must use
		Code Name				
		I Item				

LIN Item Identification

Pos: 020	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 6

User Option (Usage): Must use
To specify basic item identification data

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.

Example:

LIN**UK*00794053018326*IN*8400211*MF*33968209~

User Note:

The UPC and Buyers Item Number are not required for Special Order shipments
The Manufacturer's Number is required for Special Order shipments. (This will be the item number sent on the special order 850 with a 'VP' qualifier.)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M	ID	2/2	Used
		Code Name UK 14-digit UPC/EAN Code Description: Pep Boys expects 12-digit UPC with 2 leading zeroes.				
		User Note: Not required for Special Order shipments.				
LIN03	234	Product/Service ID Description: Identifying number for a product or service	M	AN	14/14	Used
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
		Code Name IN Buyer's Item Number User Note: Not required for Special Order shipments.				
LIN05	234	Product/Service ID Description: Identifying number for a product or service	X	AN	8/8	Used
LIN06	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
		Code Name MF Manufacturer User Note: Manufacturers number required for Special Order shipments.				
LIN07	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/15	Used

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use

To specify line-item detail relative to shipment

Syntax Rules:

1. P0506 - If either SN105 or SN106 is present, then the other is required.

Semantics:

1. SN101 is the ship notice line-item identification.

Example:

SN1**9*EA~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN102	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Must use
SN103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Must use
		<u>Code</u> EA		<u>Name</u> Each		

PO4 Item Physical Details

Pos: 060	Max: 1
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Must use

To specify the physical qualities, packaging, weights, and dimensions relating to the item

Syntax Rules:

1. C0506 - If PO405 is present, then PO406 is required.
2. C1013 - If PO410 is present, then PO413 is required.
3. C1113 - If PO411 is present, then PO413 is required.
4. C1213 - If PO412 is present, then PO413 is required.
5. C1716 - If PO417 is present, then PO416 is required.
6. C1804 - If PO418 is present, then PO404 is required.
7. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
8. P0203 - If either PO402 or PO403 is present, then the other is required.
9. P0607 - If either PO406 or PO407 is present, then the other is required.
10. P0809 - If either PO408 or PO409 is present, then the other is required.

Semantics:

1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
3. PO417 is the ending package identifier in a range of identifiers.
4. PO418 is the number of packages in this layer.

Example:

PO4*3~

User Note:

Item level PO401 must equal item level SN102 divided by item level TD102. (Replenishment shipments only)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	Pack Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container	O	N0	1/6	Used

PID Product/Item Description

Pos: 070	Max: 200
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

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

Syntax Rules:

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

Example:

*PID*F****PART DESCRIPTION~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type Description: Code indicating the format of a description	M	ID	1/1	Must use
		Code Name F Free-form				
PID05	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/80	Must use

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Must use

To specify the transportation details relative to commodity, weight, and quantity

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108 is present, then the other is required.
5. P0910 - If either TD109 or TD110 is present, then the other is required.

Example:

*TD1**3****G*10*LB~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD102	80	Lading Quantity Description: Number of units (pieces) of the lading commodity	X	NO	1/7	Must use
TD106	187	Weight Qualifier Description: Code defining the type of weight	O	ID	1/2	Must use
		Code Name				
		G Gross Weight				
TD107	81	Weight Description: Numeric value of weight	X	R	1/10	Must use
TD108	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X	ID	2/2	Must use
		Code Name				
		LB Pound				

CTT Transaction Totals

Pos: 010	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

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.

Example:

*CTT*25~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	NO	1/6	Must use

SE

Transaction Set Trailer

Pos: 020	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)

Comments:

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

Example:

*SE*42*0001~*

Element Summary:

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

GE Functional Group Trailer

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

User Option (Usage): Must use

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

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.

Element Summary:

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

IEA Interchange Control Trailer

Pos:	Max: 1
Summary - 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	M	NO	1/5	Must use
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	NO	9/9	Must use

Sample 856 – Regular Order

ISA*00* *00* *ZZ*YOURID *01*007914401 *080201*1454*^*00403*00000001*1*P*>~
 GS*SH*YOURID*007914401*20080201*1454*000001*X*004030~
 ST*856*0001~
 BSN*00*1828458823*20080201*1454*0001~
 HL*1**S~
 SN1**18*EA~
 TD1**1****G*60*LB~
 TD5**2*WATK~
 TD3*TL**12345678~
 REF*BM*1234567890~
 DTM*011*20080215~
 DTM*371*20080220~
 N1*ST**92*14011~
 HL*2*1*O~
 PRF*Y3482451~
 HL*3*2*P~
 MAN*GM*00000079405300190343~
 HL*4*3*I
 LIN**UK*00794053018326*IN*84002115*MF*33968209~
 SN1**9*EA~
 PO4*3~
 PID*F****PART A~
 TD1**3****G*10*LB~
 HL*5*3*I~
 LIN**UK*00794053018490*IN*84002146*MF*33968209~
 SN1**9*EA~
 PO4*3~
 PID*F****PART B~
 TD1**3****G*10*LB~
 CTT*2~
 SE*29*0001~
 GE*1*000001~
 IEA*1*000000001~

Sample 856 – Special Order

ISA*00* *00* *ZZ*YOURID *01*007914401 *080201*1454*^*00403*00000001*1*P*>~
 GS*SH*YOURID*007914401*20080201*1454*000001*X*004030~
 ST*856*0001~
 BSN*00*1828458823*20080201*1454*0001~
 HL*1**S~
 SN1**18*EA~
 TD1**1****G*20*LB~
 TD5**2*WATK~
 REF*BM*1234567890~
 REF*CN*12345ABCDE6789ZZZ~
 DTM*011*20080215~
 DTM*371*20080220~
 N1*ST**92*0766~
 HL*2*1*O~
 PRF*S3482451~
 HL*3*2*P~
 MAN*GM*00000079405300190343~
 HL*4*3*I
 LIN*****MF*33968209~
 SN1**9*EA~
 PO4*3~
 PID*F****PART A~
 TD1**3****G*10*LB~
 HL*5*3*I~
 LIN*****MF*33968209~
 SN1**9*EA~
 PO4*3~
 PID*F****PART B~
 TD1**3****G*10*LB~
 CTT*2~
 SE*29*0001~
 GE*1*000001~
 IEA*1*000000001~

New Special Order QOH and
ASN Mapping Guidelines for
Existing 4010 Version
Vendors.



846 Inventory Inquiry/Advice

X12/V4010/846 : 846 Inventory Inquiry/Advice

2/6/2012

SPECIAL NOTE FOR PEPBOYS TRADING PARTNERS:

This transaction must be sent nightly, before 2am, 7 days a week.

846 Inventory Inquiry/Advice

Functional Group=IB

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Inventory Inquiry/Advice Transaction Set (846) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used in the following ways: (1) for a seller of goods and services to provide inventory information to a prospective purchaser, with no obligation to the purchaser to acquire these goods or services; (2) for a representative of a seller of goods and services to supply inventory information to that seller; (3) for one location to supply another location with inventory information; and (4) for an inquiry as to the availability of inventory with no obligation on the seller of goods and services to reserve that inventory.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use
010	ST	Transaction Set Header	M	1			Must use
020	BIA	Beginning Segment for Inventory Inquiry/Advice	M	1			Must use
060	REF	Reference Identification	O	12			Must use

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - LIN					1000		
010	LIN	Item Identification	M	1			Must use
030	PID	Product/Item Description	O	200			Must use
LOOP ID - SLN					1000		
280	SLN	Subline Item Detail	O	1			Must use
LOOP ID - QTY					99		
320	QTY	Quantity	O	1			Must use

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	1		N3/010	Must use
020	SE	Transaction Set Trailer	M	1			Must use
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

3/010 Number of line items (CTT01) is the accumulation of number of LIN segments.

ISA Interchange Control Header

Pos:	Max: 1
Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 00 No Authorization Information Present (No Meaningful Information in I02)				
ISA02	I02	Authorization Information 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)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 00 No Security Information Present (No Meaningful Information in I04)				
ISA04	I04	Security Information 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)	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
ISA06	I06	Interchange Sender ID 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	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 01 Duns (Dun & Bradstreet) ZZ Mutually Defined				
ISA08	I07	Interchange Receiver ID 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	M	AN	15/15	Must use

User Note:

Inovis Test: CLPEPBOYS
 Pep Boys Test: 007914401T
 Production: 007914401

ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use
ISA11	I10	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer	M	ID	1/1	Must use
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments	M	ID	5/5	Must use
		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 Description: A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1)	M	ID	1/1	Must use
		All valid standard codes are used.				
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information	M	ID	1/1	Must use
		Code		Name		
		P		Production Data		
		T		Test Data		
ISA16	I15	Component Element Separator 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	M		1/1	Must use

GS**Functional Group Header**

Pos:	Max: 1
Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use**Purpose:** To indicate the beginning of a functional group and to provide control information**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> IB Inventory Inquiry/Advice (846)				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
		User Note: Inovis Test: CLPEPBOYS Pep Boys Test: 007914401T Production: 007914401				
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	Time 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)	M	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	Responsible Agency Code Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480	M	ID	1/2	Must use
		<u>Code</u> <u>Name</u> X Accredited Standards Committee X12				
GS08	480	Version / Release / Industry Identifier Code 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	M	AN	1/12	Must use

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

<u>Code</u>	<u>Name</u>
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: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use
Description: Code uniquely identifying a Transaction Set						
CodeList Summary (Total Codes: 298, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		846		Inventory Inquiry/Advice		
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).

Example:

ST*846*0001

BIA Beginning Segment for Inventory Inquiry/Advice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

Purpose: To indicate the beginning of an Inventory Inquiry/Advice Transaction Set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIA01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
Description: Code identifying purpose of transaction set						
CodeList Summary (Total Codes: 65, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		08		Status		
BIA02	755	Report Type Code	M	ID	2/2	Must use
Description: Code indicating the title or contents of a document, report or supporting item						
CodeList Summary (Total Codes: 522, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		DD		Distributor Inventory Report		
BIA03	127	Reference Identification	M	AN	1/30	Must use
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
BIA04	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD						

Semantics:

1. BIA03 identifies the number of the inquiry/advice that is transferred.
2. BIA04 identifies the date of the inquiry/advice that is transferred.
3. BIA05 identifies the time of the inquiry/advice that is transferred.

Example:

*BIA*08*DD*3920394930203*20110106*

REF Reference Identification

Pos: 060	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use
Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use
Description: Code qualifying the Reference Identification						
CodeList Summary (Total Codes: 1503, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		IA		Internal Vendor Number		
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						

Example:

REF*IA*0123456789

Note:

This REF02 is the Pepboys Vendor Number that will be provided by Pepboys to the supplier prior to testing.

Loop Item Identification

Pos: 010	Repeat: 10000
Mandatory	
Loop: LIN	Elements: N/A

User Option (Usage): Must use

Purpose: To specify basic item identification data

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	LIN	Item Identification	M	1		Must use
030	PID	Product/Item Description	O	200		Must use
280		Loop SLN	O		1000	Must use
320		Loop QTY	O		99	Must use

LIN Item Identification

Pos: 010	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 4

User Option (Usage): Must use

Purpose: To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		VN Vendor's (Seller's) Item Number				
LIN03	234	Product/Service ID	M	AN	1/48	Must use
		Description: Mfg Part Number				
LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		TP Product Type Code				
LIN05	234	Product/Service ID	X	AN	1/48	Used
		Description: PBY Code				

Example:

*LIN**VN*MFG Part Number*TP*ABC*

Note: *The LIN05 Represents the PBY Code which will be provided by Pepboys prior to testing*

PID Product/Item Description

Pos: 030	Max: 200
Detail - Optional	
Loop: LIN	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use
Description: Code indicating the format of a description						
CodeList Summary (Total Codes: 3, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		F		Free-form		
PID05	352	Description	X	AN	1/80	Must use
Description: A free-form description to clarify the related data elements and their content						

Example:

*PID*F****Part Description*

Loop Subline Item Detail

Pos: 280	Repeat: 1000
	Optional
Loop: SLN	Elements: N/A

User Option (Usage): Used

Purpose: To specify product subline detail item data

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
280	SLN	Subline Item Detail	O	1		Must use

SLN Subline Item Detail

Pos: 280	Max: 1
Detail - Optional	
Loop: SLN	Elements: 4

User Option (Usage): Must use
Purpose: To specify product subline detail item data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN01	350	Assigned Identification	M	AN	1/20	Must use
Description: Alphanumeric characters assigned for differentiation within a transaction set						
SLN03	662	Relationship Code	M	ID	1/1	Must use
Description: Code indicating the relationship between entities						
		<u>Code</u>		<u>Name</u>		
		O		Information Only		
SLN04	380	Quantity	X	R	1/15	Must use
Description: Numeric value of quantity						
SLN05	C001	Composite Unit of Measure	X	Comp		Must use
Description: To identify a composite unit of measure(See Figures Appendix for examples of use)						
SLN05-01	355	Unit or Basis for Measurement Code	M	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						
		<u>Code</u>		<u>Name</u>		
		PK		Package		This code is used to identify Pack Quantity
		PH		Package		This code is used to identify Repack Quantity

Example:

SLN*1**O*10*PK
 SLN*2**O*5*PH

Note:

There should be 2 SLN segments for each line item, one to report "Pack Qty" and one to report "Repack Qty". If both quantities are not available, please send 1 and 1 for the quantities in the SLN04 segments.

Loop Quantity

Pos: 320	Repeat: 99
Optional	
Loop: QTY	Elements: N/A

User Option (Usage): Must use
Purpose: To specify quantity information

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
320	QTY	Quantity	O	1		Must use

QTY Quantity

Pos: 320	Max: 1
Detail - Optional	
Loop: QTY	Elements: 3

User Option (Usage): Must use
Purpose: To specify quantity information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
QTY01	673	Quantity Qualifier	M	ID	2/2	Must use
Description: Code specifying the type of quantity						
		<u>Code</u>		<u>Name</u>		
		33		Quantity Available for Sale (stock quantity)		
QTY02	380	Quantity	X	R	1/15	Must use
Description: Numeric value of quantity						
QTY03	C001	Composite Unit of Measure	O	Comp		Must use
Description: To identify a composite unit of measure(See Figures Appendix for examples of use)						
QTY03-01	355	Unit or Basis for Measurement Code	M	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						
		<u>Code</u>		<u>Name</u>		
		EA		Each		

Example:

QTY*33*123*EA

Note: The QOH must be in eaches

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use

Description: Total number of line items in the transaction set

Example:

*CTT*10*

SE**Transaction Set Trailer**

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use**Purpose:** 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:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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				

Example:

SE*10*0001

SAMPLE 846

ST*846*1820
BIA*08*DD*PEP123456789*20101206
REF*IA*0123456789
LIN**VN*ABC1234*TP*ABC
PID*F****PART1DESCRIPTION
SLN*1**O*1*PK
SLN*2**O*1*PH
QTY*33*24*EA
LIN**VN*234-5678*TP*ABC
PID*F****PART2DESCRIPTION
SLN*1**O*1*PK
SLN*2**O*1*PH
QTY*33*53*EA
LIN**VN*XYZ-789*TP*ABC
PID*F****PART3DESCRIPTION
SLN*1**O*1*PK
SLN*2**O*1*PH
QTY*33*15*EA
CTT*3
SE*20*1820



856 Ship Notice/Manifest - v4010

X12/V4010/856

Version: 1.7

Author:	GXS
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856

Ship Notice/Manifest

Functional Group=SH

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use
010	ST	Transaction Set Header	M	1			Must use
020	BSN	Beginning Segment for Ship Notice	M	1			Must use

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - HL					200000	C2/010L	
010	HL	Hierarchical Level	M	1		C2/010	Must use
030	SN1	Item Detail (Shipment)	O	1			Used
110	TD1	Carrier Details (Quantity and Weight)	O	20			
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Must use
LOOP ID - TD3					12		
1300	TD3	Carrier Details (Equipment)	O	1			Used
150	REF	Reference Identification	O	>1			Must use
200	DTM	Date/Time Reference	O	10			Must use
LOOP ID - N1					200		
220	N1	Name	O	1			Must use
LOOP ID - HL					200000	C2/010L	
010	HL	Hierarchical Level	M	1		C2/010	Must use
050	PRF	Purchase Order Reference	M	1			Must use
LOOP ID - HL					200000	C2/010L	
010	HL	Hierarchical Level	M	1		C2/010	Must use
190	MAN	Marks and Numbers	O	>1			Must use

<u>LOOP ID - HL</u>				<u>200000</u>	<u>C2/010L</u>	
010	HL	Hierarchical Level	M	1	CN2/010	Must use
020	LIN	Item Identification	M	1		Must use
030	SN1	Item Detail (Shipment)	M	1		Must use
060	PO4	Item Physical Details	O	1		Must use
070	PID	Product/Item Description	O	200		Must use
110	TD1	Carrier Details (Quantity and Weight)	O	20		Must use

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	1			Must use
020	SE	Transaction Set Trailer	M	1			Must use
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

ISA Interchange Control Header

Pos:	Max: 1
Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information <u>Code</u> <u>Name</u> 00 No Authorization Information Present (No Meaningful Information in I02)	M	ID	2/2	Must use
ISA02	I02	Authorization Information 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)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information <u>Code</u> <u>Name</u> 00 No Security Information Present (No Meaningful Information in I04)	M	ID	2/2	Must use
ISA04	I04	Security Information 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)	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
ISA06	I06	Interchange Sender ID 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	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified <u>Code</u> <u>Name</u> 01 Duns (Dun & Bradstreet) ZZ Mutually Defined	M	ID	2/2	Must use
ISA08	I07	Interchange Receiver ID Description: Identification code published by the receiver of the data; When sending,	M	AN	15/15	Must use

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:

Inovis Test: CLPEPBOYS
 Pep Boys Test: 007914401T
 Production: 007914401

ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use
ISA11	I10	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer	M	ID	1/1	Must use
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments	M	ID	5/5	Must use
		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 Description: A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1)	M	ID	1/1	Must use
		All valid standard codes are used.				
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information	M	ID	1/1	Must use
		Code Name P Production Data T Test Data				
ISA16	I15	Component Element Separator 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	M		1/1	Must use

GS

Functional Group Header

Pos:	Max: 1
Loop: N/A	Mandatory Elements: 8

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Must use
		Code Name SH Ship Notice/Manifest (856)				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
		User Note: Inovis Test: CLPEPBOYS Pep Boys Test: 007914401T Production: 007914401				
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	Time 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)	M	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	NO	1/9	Must use
GS07	455	Responsible Agency Code Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480	M	ID	1/2	Must use
		Code Name X Accredited Standards Committee X12				
GS08	480	Version / Release / Industry Identifier Code 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	M	AN	1/12	Must use

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

<u>Code</u>	<u>Name</u>
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: 010	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

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).

Example:

*ST*856*0001~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must use
		Code Name 856 Ship Notice/Manifest				
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

BSN Beginning Segment for Ship Notice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

User Option (Usage): Must use

To transmit identifying numbers, dates, and other basic data relating to the transaction set

Syntax Rules:

1. C0706 - If BSN07 is present, then BSN06 is required.

Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.
3. BSN06 is limited to shipment related codes.

Comments:

1. BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Example:

*BSN*00*1828458823*20080201*1454*0001~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSN01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set <u>Code</u> <u>Name</u> 00 Original	M	ID	2/2	Must use
BSN02	396	Shipment Identification Description: A unique control number assigned by the original shipper to identify a specific shipment	M	AN	2/30	Must use
BSN03	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
BSN04	337	Time 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)	M	TM	4/4	Must use
BSN05	1005	Hierarchical Structure Code Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set <u>Code</u> <u>Name</u> 0001 Shipment, Order, Packaging, Item	M	ID	4/4	Must use

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Example:

*HL*1**S~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Must use
		<u>Code</u> <u>Name</u>				
		S Shipment				

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

To specify line-item detail relative to shipment

Syntax Rules:

1. P0506 - If either SN105 or SN106 is present, then the other is required.

Semantics:

1. SN101 is the ship notice line-item identification.

Comments:

1. SN103 defines the unit of measurement for both SN102 and SN104.

Example:

SN1**9*EA~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN102	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set User Note: <i>Must equal the sum of all SN102s at Item Level.</i>	M	R	1/10	Used
SN103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name EA Each	M	ID	2/2	Used

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Must use

To specify the transportation details relative to commodity, weight, and quantity

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108 is present, then the other is required.
5. P0910 - If either TD109 or TD110 is present, then the other is required.

Example:

TD1**1****G*30*LB~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD102	80	Lading Quantity Description: Number of units (pieces) of the lading commodity User Note: <i>Must equal total number of MAN segments at the Pack Level</i>	X	N0	1/7	Must use
TD106	187	Weight Qualifier Description: Code defining the type of weight Code Name G Gross Weight	O	ID	1/2	Must use
TD107	81	Weight Description: Numeric value of weight	X	R	1/10	Must use
TD108	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name LB Pound	X	ID	2/2	Must use

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 12
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

To specify the carrier and sequence of routing and provide transit time information

Syntax Rules:

1. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2. C0203 - If TD502 is present, then TD503 is required.
3. C0708 - If TD507 is present, then TD508 is required.
4. C1011 - If TD510 is present, then TD511 is required.
5. C1312 - If TD513 is present, then TD512 is required.
6. C1413 - If TD514 is present, then TD513 is required.
7. C1512 - If TD515 is present, then TD512 is required.

Semantics:

1. TD515 is the country where the service is to be performed.

Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Example:

TD5**2*WATK~

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD502	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	M	ID	1/2	Must use
		Code Name				
		2 Standard Carrier Alpha Code (SCAC)				
TD503	67	Identification Code Description: Code identifying a party or other code	X	AN	2/10	Must use

TD3 Carrier Details (Equipment)

Pos: 1300	Max: 1
Detail - Optional	
Loop: TD3	Elements: 2

User Option (Usage): Used

To specify transportation details relating to the equipment used by the carrier

Syntax Rules:

1. E0110 - Only one of TD301 or TD310 may be present.
2. C0203 - If TD302 is present, then TD303 is required.
3. C0405 - If TD304 is present, then TD305 is required.
4. P0506 - If either TD305 or TD306 is present, then the other is required.

Example:

TD3*TL**12345678~

User Note:

*This segment is **not** required for Special Order shipments.*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD301	40	Equipment Description Code Description: Code identifying type of equipment used for shipment	X	ID	2/2	Used
		Code Name TL Trailer (not otherwise specified)				
TD303	207	Equipment Number Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	X	AN	1/10	Used

REF Reference Identification

Pos: 150	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

To specify identifying information

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.

Example:

REF*BM*1234567890~
REF*CN*12345ABCDE6789ZZZ

User Note:

*Bill of Lading Number (BM) is required.
Carrier's Ref Number (CN) is required for special orders only. It is the tracking number provided by the carrier.
Packing List Number (PK) is optional.*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		Code Name				
		BM Bill of Lading Number				
		CN Carrier's Reference Number (PRO/Invoice)				
		PK Packing List Number				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Must use

DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

To specify pertinent dates and times

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.

Example:

DTM*011*20080215~
DTM*371*20080220~

User Note:

*Shipped Date (011) is required.
Current Schedule Delivery Date (067) is optional.
Estimated Arrival Date (371) is required.*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time Code Name 011 Shipped 067 Current Schedule Delivery 371 Estimated Arrival Date	M	ID	3/3	Must use
DTM02	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Must use

N1

Name

Pos: 220	Max: 1
Detail - Optional	
Loop: N1	Elements: 3

User Option (Usage): Must use

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

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.

Example:

N1*ST**92*14026~

Or

N1*ST**92*0766~

User Note:

For Regular Order ASNs, this will be the 5-digit Distribution Center location code sent on the Purchase Order. For Special Order ASNs, this will be the 4-digit store number location code sent on the Purchase Order.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use
		Code Name ST Ship To				
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	X	ID	1/2	Must use
		Code Name 92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	4/5	Must use

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Example:

*HL*2*1*O~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	M	AN	1/12	Must use
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Must use
		Code Name				
		O Order				

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 1

User Option (Usage): Must use

To provide reference to a specific purchase order

Semantics:

1. PRF04 is the date assigned by the purchaser to purchase order.

Example:

*PRF*S3482451~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Must use

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Example:

*HL*3*2*P~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Must use
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Must use
		Code Name				
		P Pack				

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

To indicate identifying marks and numbers for shipping containers

Syntax Rules:

1. C0605 - If MAN06 is present, then MAN05 is required.
2. P0405 - If either MAN04 or MAN05 is present, then the other is required.

Semantics:

1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Example:

*MAN*GM*00000079405300190343~*

Or

*MAN*AA*000079405300190343~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier Description: Code specifying the application or source of Marks and Numbers (87)	M	ID	1/2	Must use
		Code Name				
		AA SSCC-18				
		GM SSCC-18 and Application Identifier				
MAN02	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	M	AN	18/20	Must use

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Must use
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Must use
		Code Name I Item				

LIN Item Identification

Pos: 020	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 6

User Option (Usage): Must use

To specify basic item identification data

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

Example:

LIN**UP*794053018326*IN*8400211*MF*33968209~

User Note:

The UPC and Buyers Item Number are not required for Special Order shipments
 The Manufacturer's Number is required for Special Order shipments. (This will be the item number sent on the special order 850 with a 'VP' qualifier.)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name UP 12-digit UPC Code Description: Pep Boys expects 12-digit UPC User Note: Not required for Special Order shipments.	M	ID	2/2	Used
LIN03	234	Product/Service ID Description: Identifying number for a product or service	M	AN	14/14	Used
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name IN Buyer's Item Number User Note: Not required for Special Order shipments.	X	ID	2/2	Used
LIN05	234	Product/Service ID Description: Identifying number for a product or service	X	AN	8/8	Used
LIN06	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name	X	ID	2/2	Used

LIN07	234	MF	Manufacturer				
		User Note: <i>Manufacturers number required for Special Order shipments.</i>					
		Product/Service ID		X	AN	1/15	Used
		Description: Identifying number for a product or service					

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use

To specify line-item detail relative to shipment

Syntax Rules:

1. P0506 - If either SN105 or SN106 is present, then the other is required.

Semantics:

1. SN101 is the ship notice line-item identification.

Example:

SN1**9*EA~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN102	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Must use
SN103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Must use
		<u>Code</u> EA		<u>Name</u> Each		

PO4 Item Physical Details

Pos: 060	Max: 1
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Must use

To specify the physical qualities, packaging, weights, and dimensions relating to the item

Syntax Rules:

1. C0506 - If PO405 is present, then PO406 is required.
2. C1013 - If PO410 is present, then PO413 is required.
3. C1113 - If PO411 is present, then PO413 is required.
4. C1213 - If PO412 is present, then PO413 is required.
5. C1716 - If PO417 is present, then PO416 is required.
6. C1804 - If PO418 is present, then PO404 is required.
7. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
8. P0203 - If either PO402 or PO403 is present, then the other is required.
9. P0607 - If either PO406 or PO407 is present, then the other is required.
10. P0809 - If either PO408 or PO409 is present, then the other is required.

Semantics:

1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
3. PO417 is the ending package identifier in a range of identifiers.
4. PO418 is the number of packages in this layer.

Example:

PO4*3~

User Note:

Item level PO401 must equal item level SN102 divided by item level TD102. (Replenishment shipments only)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	Pack	O	N0	1/6	Must use
		Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container				

PID Product/Item Description

Pos: 070	Max: 200
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

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

Syntax Rules:

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

Example:

*PID*F****PART DESCRIPTION~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type Description: Code indicating the format of a description	M	ID	1/1	Must use
		Code Name F Free-form				
PID05	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/80	Must use

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Must use

To specify the transportation details relative to commodity, weight, and quantity

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108 is present, then the other is required.
5. P0910 - If either TD109 or TD110 is present, then the other is required.

Example:

TD1**3****G*10*LB~

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD102	80	Lading Quantity Description: Number of units (pieces) of the lading commodity	X	N0	1/7	Must use
TD106	187	Weight Qualifier Description: Code defining the type of weight	O	ID	1/2	Must use
		Code Name				
		G Gross Weight				
TD107	81	Weight Description: Numeric value of weight	X	R	1/10	Must use
TD108	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X	ID	2/2	Must use
		Code Name				
		LB Pound				

CTT Transaction Totals

Pos: 010	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

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.

Example:

*CTT*25~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	NO	1/6	Must use

SE Transaction Set Trailer

Pos: 020	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)

Comments:

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

Example:

*SE*42*0001~*

Element Summary:

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

GE Functional Group Trailer

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

User Option (Usage): Must use

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

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.

Element Summary:

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

IEA Interchange Control Trailer

Pos:	Max: 1
Summary - 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:

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

Sample 856 – Regular Order

ISA*00* *00* *ZZ*YOURID *01*007914401 *080201*1454*U*00401*000000001*1*P*>~
 GS*SH*YOURID*007914401*20080201*1454*000001*X*004010~
 ST*856*0001~
 BSN*00*1828458823*20080201*1454*0001~
 HL*1**S~
 SN1**18*EA~
 TD1**1****G*20*LB~
 TD5**2*WATK~
 TD3*TL**12345678~
 REF*BM*1234567890~
 DTM*011*20080215~
 DTM*371*20080220~
 N1*ST**92*14011~
 HL*2*1*O~
 PRF*Y3482451~
 HL*3*2*P~
 MAN*GM*00000079405300190343~
 HL*4*3*I
 LIN**UP*794053018326*IN*84002115*MF*33968209~
 SN1**9*EA~
 PO4*3~
 PID*F****PART A~
 TD1**3****G*10*LB~
 HL*5*3*I~
 LIN**UP*794053018490*IN*84002146*MF*33968209~
 SN1**9*EA~
 PO4*3~
 PID*F****PART B~
 TD1**3****G*10*LB~
 CTT*2~
 SE*29*0001~
 GE*1*000001~
 IEA*1*000000001~

Sample 856 – Special Order

ISA*00* *00* *ZZ*YOURID *01*007914401 *080201*1454*U*00401*000000001*1*P*>~
 GS*SH*YOURID*007914401*20080201*1454*000001*X*004010~
 ST*856*0001~
 BSN*00*1828458823*20080201*1454*0001~
 HL*1**S~
 SN1**18*EA~
 TD1**1****G*20*LB~
 TD5**2*WATK~
 REF*BM*1234567890~
 REF*CN*12345ABCDE6789ZZZ~
 DTM*011*20080215~
 DTM*371*20080220~
 N1*ST**92*0766~
 HL*2*1*O~
 PRF*S3482451~
 HL*3*2*P~
 MAN*GM*00000079405300190343~
 HL*4*3*I
 LIN*****MF*33968209~
 SN1**9*EA~
 PO4*3~
 PID*F****PART A~
 TD1**3****G*10*LB~
 HL*5*3*I~
 LIN*****MF*33968209~
 SN1**9*EA~
 PO4*3~
 PID*F****PART B~
 TD1**3****G*10*LB~
 CTT*2~
 SE*29*0001~
 GE*1*000001~
 IEA*1*000000001~