



3M EDI ANSI 4010 X12 855 Purchase Order Acknowledgement

Introduction

- The purpose of this document is to explain the requirements for a customer wanting to send and receive electronic procure to pay transactions with 3M. The 3M EDI 855 works only on this standard guide/map thus 3M will not accommodate any customer specific requirements. If a customer signs up to transmission of EDI 850 they must agree to send/receive the suite of EDI procure to pay transactions (850, 855, 860, 865 856 and 810). This guide pertains specifically to the EDI 855.
 - The ASC X12 version presented in this guideline is 004010.

Key Points

- 3M will send an ACK segment for each line on customer purchase order.
- 3M will use the 855 transaction to send 3M initiated changes to customer's order. For instance if 3M needs to change the delivery date from the originally agreed upon delivery date, 3M will communicate that change with an EDI 855. (BAK01 – 04 Change)
- If customer sends changes a purchase order they should do so via 3M EDI 860. 3M will respond to customer EDI 860 (order change) with an EDI 865 (PO Change Acknowledgement). Any subsequent 3M initiated changes will be communicated via 855. 3M will not send and 865 unless responding to a customer's 860.
- Customer should not increment its PO Version Number when applying 3M initiated changes via 855 AND should NOT send 3M a corresponding 860.



- 3M will send Product/Service ID per the PO using the following qualifiers

Code **Name**

BP	Buyer Part Number
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)
UP	U.P.C. Consumer Package Code (1-5-5-1)
VP	Vendor's (Seller's) Part Number

- 3M will acknowledge each PO line with an ACK segment leveraging the following ACK01 qualifiers:

Code **Name**

IA	Item Accepted
IB	Item Backordered
IC	Item Accepted – Changes Made
ID	Item Deleted
IR	Item Rejected
IP	Item Accepted – Price Changed
IQ	Item Accepted – Quantity Changed
DR	Date Re-Scheduled
IH	Item On Hold

- Customers may use “*”, “}” or “|” as separators in EDI files

PO Acknowledgement Structure

- 3M will provide a PO1 segment for each line on customer purchase order
- 3M will provide at least 1 ACK segment for each PO1 segment.
- The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

855

Purchase Order Acknowledgment

Functional Group=**PR**

Purpose: 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 the agreed upon purchase order.

Note:

3M will always send an 855 Acknowledgement upon receiving a Purchase Order via EDI. If 3M makes subsequent changes to a customer order, additional 855's will be sent specifying the changes made. The customer should not send back updated order upon

Not Defined:

<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			Used
	GS	Functional Group Header	M	1			Used

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>
010	ST	Transaction Set Header	M	1			Must use
020	BAK	Beginning Segment for Purchase Order Acknowledgment	M	1			Must use
050	REF	Reference Identification	O	3			Optional
060	PER	Administrative Communications Contact	O	3			Optional

<u>LOOP ID - N1</u>			<u>200</u>				
300	N1	Name	M	1			Must use
310	N2	Additional Name Information	O	2			Optional
320	N3	Address Information	O	2			Optional
330	N4	Geographic Location	M	1			Must use



Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - PO1					100000	N2/010L	
010	PO1	Baseline Item Data	M	1		N2/010	Must use
LOOP ID - PID					1000		
050	PID	Product/Item Description	M	1			Must use
LOOP ID - ACK					104		
270	ACK	Line Item Acknowledgment	M	1			Must use

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - ACK					1	N3/010	
010	CTT	Transaction Totals	O	1			Used
030	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:

- 2/010L PO102 is required.
- 2/010 PO102 is required.



ISA

Interchange Control Header

Pos: 001	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Mandatory

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	M	ID	2/2	Mandatory
		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)		
ISA02	I02	Authorization Information	M	AN	10/10	Mandatory
		Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)				
ISA03	I03	Security Information Qualifier	M	ID	2/2	Mandatory
		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)		
ISA04	I04	Security Information	M	AN	10/10	Mandatory
		Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)				
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Mandatory
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				
ISA06	I06	Interchange Sender ID	M	AN	15/15	Mandatory
		Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element				
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Mandatory
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Mandatory
		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				
ISA09	I08	Interchange Date	M	DT	6/6	Mandatory
		Description: Date of the interchange				
ISA10	I09	Interchange Time	M	TM	4/4	Mandatory
		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	Mandatory
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer				
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Mandatory
		Description: This version number covers the interchange control segments				



Code **Name**
 004010 Standard Issued as ANSI X12

ISA13 I12 **Interchange Control Number** M N0 9/9 Mandatory

Description: A control number assigned by the interchange sender

ISA14 I13 **Acknowledgment Requested** M ID 1/1 Mandatory

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

Code **Name**
 0 No Acknowledgment Requested

ISA15 I14 **Usage Indicator** M ID 1/1 Mandatory

Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information

Code **Name**
 P Production Data
 T Test Data

ISA16 I15 **Component Element Separator** M 1/1 Mandatory

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

Segment Data Example:

ISA*00* *00* *01*006173082 *01*042653634G *240206*1346*U*00200*000560947*0*P**~

GS

Functional Group Header

Pos: 002	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Mandatory

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Mandatory
		Code Name PR Purchase Order Acknowledgement (855)				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Mandatory
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission. Codes agreed to by trading partners	M	AN	2/15	Mandatory
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Mandatory
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	Mandatory
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Mandatory
GS07	455	Responsible Agency Code Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard	M	ID	1/2	Mandatory
		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 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	Mandatory
		Code Name 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board				
		through October 1997				

Segment Data Example:

GS*PR*006173082PO9*042653634*20240206*1346*560947*X*004010~



ST

Transaction Set Header

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

User Option (Usage): Mandatory

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	Mandatory
		Description: Code uniquely identifying a Transaction Set				
		<u>Code</u>		<u>Name</u>		
		855		Purchase Order Acknowledgement		
ST02	329	Transaction Set Control Number	M	AN	4/9	Mandatory
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Segment Data Example:

ST*855*684585~

BAK

Beginning Segment for Purchase Order Acknowledgement

Pos: 020 Max: 1
 Heading - Mandatory
 Loop: N/A Elements: 7

User Option (Usage): Mandatory

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BAK01	353	Transaction Set Purpose Code	M	ID	2/2	Mandatory
		Description: Code identifying purpose of transaction set				
		<u>Code</u>		<u>Name</u>		
		00		Original		
		04		Change		
BAK02	587	Acknowledgement Type	M	ID	2/2	Mandatory
		Description: Code specifying the type of acknowledgement				
		<u>Code</u>		<u>Name</u>		
		AC		Acknowledge - With Detail and Change		
		AD		Acknowledge - With Detail, No Change		
		RD		Reject with Detail		
BAK03	324	Purchase Order Number	M	AN	1/22	Mandatory
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser				
BAK04	373	Date	M	DT	8/8	Mandatory
		Description: Date expressed as CCYYMMDD				
BAK05	328	Release Number	O	AN	1/30	Optional
		Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction				
		Element User Note: The original PO should be identified as 00 and the first change revision should be submitted as 01 and increase by 1 (ex. 01, 02) for each change made thereafter.				
BAK08	127	Reference Identification	O	AN	1/30	Optional
		Description: Code defining the method by which invoices are to be processed				
BAK09	373	Date	O	DT	8/8	Optional
		Description: Date expressed as CCYYMMDD				

Segment Data Example:

BAK*00*AD*WUWI29535*20240206*00*****20240206~

Segment User Note:

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.

REF

Reference Identification

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Optional

Purpose: It is used to specify identifying information.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory
Description: Code qualifying the Reference Identification						
		<u>Code</u>		<u>Name</u>		
		1W		Member Identification Number		
		AP		Accounts Receivable Number		
		BM		Bill of Lading Number		
		CN		Carrier's Reference Number (PRO/Invoice)		
		CR		Customer Reference Number		
		FR		Freight Bill Number		
		IA		Internal Vendor Number		
		IL		Internal Order Number		
		IT		Internal Customer Number		
		OQ		Order Number (Qualifies a code that identifies the authorizing documentation for a household goods)		
		OR		Order/Paragraph Number		
		PK		Packing List Number		
		PY		Payee's Financial Institution Account Number for Check, Draft or Wire Payments; Receiving Company Account Number for ACH Transfer		
		RT		Payee's Financial Institution Transit Routing Number for Check, Draft or Wire Payments. Receiving Depository Financial Institution Transit Routing Number for ACH Transfers		
		VN		Vendor Order Number		
		VR		Vendor ID Number		
REF02	127	Reference Identification	C	AN	1/30	Conditional
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

Segment User Example:

REF*IA*318493190~

PER

Administrative Communications Contact

Pos: 060	Max: 3
Heading - Optional	
Loop: N/A	Elements: 8

User Option (Usage): Optional

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER01	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named <u>Code</u> <u>Name</u> BD Buyer Name or Department CN General Contact CR Customer Relations DC Delivery Contact EA EDI Coordinator IC Information Contact OC Order Contact WH Warehouse	M	ID	2/2	Mandatory
PER02	93	Name Description: Free-form name	O	AN	1/60	Optional
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number <u>Code</u> <u>Name</u> TE Telephone	C	ID	2/2	Conditional
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Conditional
PER05	365	Communication Number Qualifier Description: Code identifying the type of communication number <u>Code</u> <u>Name</u> FX Facsimile	C	ID	2/2	Conditional
PER06	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Conditional
PER07	365	Communication Number Qualifier Description: Code identifying the type of communication number <u>Code</u> <u>Name</u> EM Electronic Mail	C	ID	2/2	Conditional
PER08	364	Communication Number Description: Complete communications number including country or	C	AN	1/80	Conditional



area code when applicable

Segment User Example:

PER*BD*Purchasing Dept*TE*123-456-
890***EM*Smith.Purchasing@company.com~
PER*DI*JOHN SMITH*TE*1234567890~

N1

Name

Pos: 310 Max: 1
 Heading - Optional
 Loop: N1 Elements: 4

User Option (Usage): Mandatory

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

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 <u>Code</u> <u>Name</u> ST Ship To BT Bill-to-party BY Buying Party (Purchaser)	M	ID	2/3	Mandatory
N102	93	Name Description: Free-form name	C	AN	1/60	Conditional
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) <u>Code</u> <u>Name</u> 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent	C	ID	1/2	Conditional
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/80	Conditional

Segment User Example:

N1*ST*ABC SUPPLY COMPANY*92*WIND-WC~



N2 Additional Name Information

Pos: 320 Max: 2
 Heading - Optional
 Loop: N1 Elements: 2

User Option (Usage): Optional

Purpose: To specify additional names or those longer than 35 characters in length

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N201	93	Name Description: Free-form name	M	ID	1/60	Mandatory
N202	93	Name Description: Free-form name	O	AN	1/60	Optional

Segment User Example:

N2*Western Distribution Center*~



N3

Address Information

Pos: 330	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Mandatory

Purpose: To specify the location of the named party

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	Mandatory
N302	166	Address Information Description: Address information	O	AN	1/55	Optional

Segment User Example:

N3*Customer ShipTo Address~

N4 Geographic Location

Pos: 340	Max: >1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Mandatory

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Reg</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name <i>Description:</i> Free-form text for city name	O	AN	2/30	Optional
N402	156	State or Province Code <i>Description:</i> Code (Standard State/Province) as defined by appropriate government agency	O	ID	0/3	Optional
N403	116	Postal Code <i>Description:</i> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	0/15	Optional
N404	26	Country Code <i>Description:</i> Code identifying the country	O	ID	2/3	Optional

Segment User Example:

N4*Denver*CO*80238*USA~

PO1

Baseline Item Data

Pos: 010 Max: 1
 Detail - Mandatory
 Loop: PO1 Elements: 23

User Option (Usage): Mandatory

Purpose: To specify basic and most frequently used line item data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO101	350	Assigned Identification	O	AN	1/20	Optional
<p>Description: Alphanumeric characters assigned for differentiation within a transaction set Element User Note: This is the PO Line number as sent on the Purchase Order. If not sent on the Purchase Order, then this will be the line number assigned by 3M.</p>						
PO102	330	Quantity Ordered	C	R	1/15	Conditional
<p>Description: Quantity Ordered Element User Note: This is the original line item quantity as sent on the purchase order.</p>						
PO103	355	Unit or Basis for Measurement Code	O	ID	2/2	Optional
<p>Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Element User Note: This is the original unit of measure as sent on the purchase order.</p> <p>All valid X12 codes are used.</p>						
PO104	212	Unit Price	C	R	1/17	Conditional
<p>Description: Price per unit of product, service, commodity, etc. Element User Note: Price is sent if the item has been priced out on the 3M order. The price is based on the 3M unit of measure.</p>						
PO105	639	Basis of Unit Price Code	O	ID	2/2	Optional
<p>Description: Code identifying the type of unit price for an item Refer to 004010 Data Element Dictionary for acceptable code values Element User Note:</p> <p>All valid X12 codes are used.</p>						

PO106 235 **Product/Service ID Qualifier** C ID 2/2 Conditional

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
Refer to 004010 Data Element Dictionary for acceptable code values

Element User Note: *This will be the item qualifier sent in the corresponding item qualifier in the purchase order.*

<u>Code</u>	<u>Name</u>
BP	Buyer Part Number
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1
UP	U.P.C. Consumer Package Code (1-5-5-1)
VP	Vendor's (Seller's) Part Number

PO107 234 **Product/Service ID** C AN 1/48 Conditional

Description: Identifying number for a product or service

Element User Note: *This will be the item code sent in the corresponding item code in the purchase order*

PO108 235 **Product/Service ID Qualifier** C ID 2/2 Conditional

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
Refer to 004010 Data Element Dictionary for acceptable code values

Element User Note: *This will be the item qualifier sent in the corresponding item qualifier in the purchase order.*

<u>Code</u>	<u>Name</u>
BP	Buyer Part Number
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1
UP	U.P.C. Consumer Package Code (1-5-5-1)
VP	Vendor's (Seller's) Part Number

PO109 234 **Product/Service ID** C AN 1/48 Conditional

Description: Identifying number for a product or service

Element User Note: *This will be the item code sent in the corresponding item code in the purchase order*



PO110 235 **Product/Service ID Qualifier** C ID 2/2 Conditional

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
Refer to 004010 Data Element Dictionary for acceptable code values

Element User Note: *This will be the item qualifier sent in the corresponding item qualifier in the purchase order.*

- BP Buyer Part Number
- UK U.P.C./EAN Shipping Container Code (1-2-5-5-1
- UP U.P.C. Consumer Package Code (1-5-5-1)
- VP Vendor's (Seller's) Part Number

PO111 234 **Product/Service ID** C AN 1/48 Conditional

Description: Identifying number for a product or service

Element User Note: *This will be the item code sent in the corresponding item code in the purchase order*

PO112 235 **Product/Service ID Qualifier** C ID 2/2 Conditional

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
Refer to 004010 Data Element Dictionary for acceptable code values

Element User Note: *This will be the item qualifier sent in the corresponding item qualifier in the purchase order.*

- BP Buyer Part Number
- UK U.P.C./EAN Shipping Container Code (1-2-5-5-1
- UP U.P.C. Consumer Package Code (1-5-5-1)
- VP Vendor's (Seller's) Part Number

PO113 234 **Product/Service ID** C AN 1/48 Conditional

Description: Identifying number for a product or service

Element User Note: *This will be the item code sent in the corresponding item code in the purchase order*

Segment User Example:

PO1*1*5*EA*28.5174****VP*00051131267206*VP*00051131267206~



PID Product/Item Description

Pos: 050	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

User Option (Usage): Optional

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

Element Summary:

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

Segment User Example:

PID*F****26720, Perform Grav Head HVLP, 2.0, 5/CV~

ACK Line Item Acknowledgment

Pos: 270	Max: 1
Heading - Mandatory	
Loop: ACK	Elements: 7

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Reg	Type	Min/Max	Usage
ACK01	668	Line Item Status Code	M	ID	2/2	Mandatory

Description: Code specifying the action taken by the seller on a line item requested by the buyer

Code	Name
IA	Item Accepted
IB	Item Backordered
IC	Item Accepted – Changes Made
ID	Item Deleted
IR	Item Rejected
IP	Item Accepted – Price Changed
IQ	Item Accepted – Quantity Changed
DR	Date Re-Scheduled
IH	Item On Hold

ACK02	380	Quantity	C	R	1/15	Conditional
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Description: Numeric value of quantity

ACK03	355	Unit or Basis for Measurement Code	C	ID	2/2	Conditional
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

All valid X12 codes are used.

ACK04	374	Date/Time Qualifier	O	ID	3/3	Optional
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Description: Code specifying type of date or time, or both date and time

Code	Name
067	Current Schedule Delivery



ACK05 373 **Date** C DT 8/8 Conditional

Description: Date expressed as CCYYMMDD

ACK07 235 **Product/Service ID Qualifier** C ID 2/2 Conditional

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

<u>Code</u>	<u>Name</u>
VP	Vendor Part Number
BP	Buyer Part Number

ACK08 234 **Product/Service ID** C AN 1/48 Conditional

Description: Identifying number for a product or service

Segment User Example:

ACK*IA*5*CA*002*20240209*BP*922216421*VP*00051131267206~



CTT

Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: CTT	Elements: 2

User Option (Usage): Mandatory

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

Element Summary:

Ref	Id	Element Name	Reg	Type	Min/Max	Usage
CTT01	354	Number of Line Items	M	N0	1/6	Mandatory
Description: Total number of line items in the transaction set						
CTT02	347	Number of Line Items	O	R	1/10	Optional
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 prior to truncation. 855 Hash total after truncation to three-digit field.						

Segment User Example:

CTT*1~



SE Transaction Set Trailer

Pos: 030	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

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	Mandatory
		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	Mandatory
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Segment User Example:

SE*8*684585~



GE Functional Group Trailer

Pos: 031	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

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

Element Summary:

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

Segment User Example:

GE*1*560947~



IEA Interchange Control Trailer

Pos: 032	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

Purpose: 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	M	N0	1/5	Mandatory
		Description: A count of the number of functional groups included in an interchange				
IEA02	I12	Interchange Control Number	M	N0	9/9	Mandatory
		Description: A control number assigned by the interchange sender				

Segment User Example:

IEA*1*000560947~



Transaction Example:

ISA*00* *00* *ZZ*SENDERID *ZZ*RECEIVERID
*150217*1322*U*00401*000001365*0*P*>~
GS*PR*SENDERID*RECEIVERID*CCYYMMDD*HHMM*223*X*004010~
ST*855*1365~
BAK*04*AC*"CUSTOMER PO NUMBER"*CCYYMMDD~
N1*ST*CUSTOMER SHIP TO *92*0001234567~
N2*Western Distribution Center*~
N3*Customer ShipTo Address~
N4*Denver*CO*80238*USA~
PO1*00010*2280*EA***BP*7000123456*VP*EX988955444 ~
PID*F****LINE ITEM DESCRIPTION~
ACK*IA*2000*EA*002*20240209*BP*7000123456*VP* EX988955444 ~
ACK*IB*280*EA*002*20240401*BP*7000123456*VP* EX988955444 ~
CTT*1~
SE*12*1365~
GE*1*223~
IEA*1*000001365