



# **Electronic Components Industry Association Guideline**

## **EDI Transaction Set 855 Purchase Order Acknowledgment**

X12 Version 4010

February 2012

ECIA's EDI Committee has reviewed this transaction set and made modifications that will benefit the electronics industry by simplifying the transaction focusing on industry specific needs.

## 855 Purchase Order Acknowledgment

Functional Group ID=**PR**

### Introduction:

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.

### Heading:

Page No.	Pos. No.	Seg. ID	Name	Base Status	User Status	Max.Use	Loop Repeat	Notes and Comments
2	010	ST	Transaction Set Header	M	M	1		
3	020	BAK	Beginning Segment for Purchase Order Acknowledgment	M	M	1		

### Detail:

Page No.	Pos. No.	Seg. ID	Name	Base Status	User Status	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - PO1				100000	
4	010	PO1	Baseline Item Data	O		1		n1
			LOOP ID - ACK				104	
6	270	ACK	Line Item Acknowledgment	O		1		
8	280	DTM	Date/Time Reference	O		1		

### Summary:

Page No.	Pos. No.	Seg. ID	Name	Base Status	User Status	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - CTT				1	
9	010	CTT	Transaction Totals	O		1		n2
10	030	SE	Transaction Set Trailer	M	M	1		

### 11 APPENDIX – Sample 855 Transaction

### Transaction Set Notes

1. PO102 is required.
2. 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.

Segment: **ST** Transaction Set Header

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**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number

**Syntax Notes:**

**Semantic Notes:** **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).

**Comments:**

### Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
ST01	143	Transaction Set Identifier Code	M ID 3/3	M
		Code uniquely identifying a Transaction Set		
		<b>855 Purchase Order Acknowledgment</b>		
ST02	329	Transaction Set Control Number	M AN 4/9	M
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
		<b>A Sequential number assigned by the supplier.</b>		

**Segment:** **BAK** Beginning Segment for Purchase Order Acknowledgment  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of the Purchase Order Acknowledgment Transaction Set and transmit identifying numbers and dates

**Syntax Notes:**

- Semantic Notes:**
- 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.

**Comments:**

### Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
BAK01	353	Transaction Set Purpose Code	M ID 2/2	M
		Code identifying purpose of transaction set		
		<b>00 Original</b>		
BAK02	587	Acknowledgment Type	M ID 2/2	M
		Code specifying the type of acknowledgment		
		<b>AC Acknowledge - With Detail and Change</b>		
		<b>AD Acknowledge - With Detail, no Change</b>		
		<b>AE Acknowledge - With Exception Detail Only</b>		
		<b>AH Acknowledge - Hold Status</b>		
		<b>AK Acknowledge - No Detail or Change</b>		
		<b>AT Accepted</b>		
		<b>RD Reject with Detail</b>		
		<b>RF Reject with Exception Detail Only</b>		
		<b>RJ Rejected - No Detail</b>		
		<b>ZZ Mutually defined</b>		
BAK03	324	Purchase Order Number	M AN 1/22	M
		Identifying number for Purchase Order assigned by the orderer/purchaser		
BAK04	373	Date	M DT 8/8	M
		Date expressed as CCYYMMDD		
		<b>Purchase order date.</b>		
BAK08	127	Reference Identification	O AN 1/30	
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
		<b>Supplier's sales order number.</b>		
BAK09	373	Date	O DT 8/8	
		Date expressed as CCYYMMDD		
		<b>Acknowledgment date.</b>		

- Segment:** **PO1** **Baseline Item Data**
- Position:** 010
- Loop:** PO1 Optional
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify basic and most frequently used line item data
- Syntax Notes:**
- 1 If PO103 is present, then PO102 is required.
  - 2 If PO105 is present, then PO104 is required.
  - 3 If either PO106 or PO107 is present, then the other is required.
  - 4 If either PO108 or PO109 is present, then the other is required.
  - 5 If either PO110 or PO111 is present, then the other is required.
  - 6 If either PO112 or PO113 is present, then the other is required.
  - 7 If either PO114 or PO115 is present, then the other is required.
  - 8 If either PO116 or PO117 is present, then the other is required.
  - 9 If either PO118 or PO119 is present, then the other is required.
  - 10 If either PO120 or PO121 is present, then the other is required.
  - 11 If either PO122 or PO123 is present, then the other is required.
  - 12 If either PO124 or PO125 is present, then the other is required.
- Semantic Notes:**
- 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.

### Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
PO101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set <b>Purchase order line item number for line item being acknowledged.</b>	O AN 1/20	
PO102	330	<b>Quantity Ordered</b> Quantity ordered <b>Total quantity ordered for all requested ship dates provided in "SCH" or "DTM" segments.</b>	X R 1/15	
PO103	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>EA Each</b> <b>IN Inch</b> <b>FT Foot</b> <b>CM Centimeter</b> <b>MR Meter</b>	O ID 2/2	
PO104	212	<b>Unit Price</b> Price per unit of product, service, commodity, etc. <b>Unit Price with maximum of five decimal places.</b>	X R 1/17	
PO105	639	<b>Basis of Unit Price Code</b> Code identifying the type of unit price for an item <b>PE Price per Each</b> <b>HP Price per Hundred</b> <b>TP Price per Thousand</b>	O ID 2/2	
PO106	235	<b>Product/Service ID Qualifier</b>	X ID 2/2	

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		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		<b>BP</b>	<b>Buyer's Part Number</b>	
<b>PO107</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>AN 1/48</b>
		Identifying number for a product or service		
		<b>Customer's part number.</b>		
<b>PO108</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		<b>VP</b>	<b>Vendor's (Seller's) Part Number</b>	
<b>PO109</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>AN 1/48</b>
		Identifying number for a product or service		
		<b>Vendor's part number.</b>		

**Segment:** **ACK** Line Item Acknowledgment

**Position:** 270

**Loop:** ACK Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

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

**Syntax Notes:**

- 1 If either ACK02 or ACK03 is present, then the other is required.
- 2 If ACK04 is present, then ACK05 is required.
- 3 If either ACK07 or ACK08 is present, then the other is required.
- 4 If either ACK09 or ACK10 is present, then the other is required.
- 5 If either ACK11 or ACK12 is present, then the other is required.
- 6 If either ACK13 or ACK14 is present, then the other is required.
- 7 If either ACK15 or ACK16 is present, then the other is required.
- 8 If either ACK17 or ACK18 is present, then the other is required.
- 9 If either ACK19 or ACK20 is present, then the other is required.
- 10 If either ACK21 or ACK22 is present, then the other is required.
- 11 If either ACK23 or ACK24 is present, then the other is required.
- 12 If either ACK25 or ACK26 is present, then the other is required.
- 13 If either ACK27 or ACK28 is present, then the other is required.
- 14 If ACK28 is present, then both ACK27 and ACK29 are required.

**Semantic Notes:** 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.

**Comments:**

**Notes:** **Data elements ACK04 and ACK05 (schedule date) are mandatory when the code in element ACK0 is "IC" or "IA" (schedule with or without changes).**

### Data Element Summary

Ref.	Data	Name	Base	User
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
ACK01	668	Line Item Status Code	M ID 2/2	M
		Code specifying the action taken by the seller on a line item requested by the buyer		
		AC	Item Accepted - Order Forwarded to Alternate Supplier or Location	
		AR	Item Accepted and Released for Shipment	
		BP	Item Accepted - Partial Shipment, Balance Backordered	
		DR	Item Accepted - Date Rescheduled	
		IA	Item Accepted - No Changes	
		IB	Item Backordered	
		IC	Item Accepted - Changes Made	
		ID	Item Deleted	
		IH	Item on Hold	
		IP	Item Accepted - Price Changed	
		IQ	Item Accepted - Quantity Changed	
		IR	Item Rejected	
		IS	Item Accepted - Substitution Made	
		R2	Item Rejected - Invalid Item Product Number	
		R7	Item Rejected - Reorder Item as a Drop Shipment	
		SP	Item Accepted - Schedule Date Pending	
ACK02	380	Quantity	X R 1/15	
		Numeric value of quantity		
ACK03	355	Unit or Basis for Measurement Code	X ID 2/2	
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		

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		<b>EA</b>	<b>Each</b>		
		<b>IN</b>	<b>Inch</b>		
		<b>FT</b>	<b>Foot</b>		
		<b>CM</b>	<b>Centimeter</b>		
		<b>MR</b>	<b>Meter</b>		
<b>ACK04</b>	<b>374</b>	<b>Date/Time Qualifier</b>		<b>O</b>	<b>ID 3/3</b>
		Code specifying type of date or time, or both date and time			
		<b>017</b>	<b>Estimated Dock Date</b>		
		<b>067</b>	<b>Current Schedule Delivery (ship date from supplier)</b>		
		<b>068</b>	<b>Schedule Ship Date</b>		
<b>ACK05</b>	<b>373</b>	<b>Date</b>		<b>X</b>	<b>DT 8/8</b>
		Date expressed as CCYYMMDD			



**Segment:** **DTM** Date/Time Reference

**Position:** 280

**Loop:** ACK Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify pertinent dates and times.  
To identify requested delivery dates.

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

**Semantic Notes:**

**Comments:**

### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Base</u>	<u>User</u>
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3	M
		Code specifying type of date or time, or both date and time		
		002 Delivery Requested		
		071 Requested for Delivery (After and Including)		
DTM02	373	Date	X DT 8/8	
		Date expressed as CCYYMMDD		
		Requested delivery date.		

**Segment:** **CTT** Transaction Totals

**Position:** 010

**Loop:** CTT Optional

**Level:** Summary

**Usage:** Optional

**Max Use:** 1

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

**Syntax Notes:** 1 If either CTT03 or CTT04 is present, then the other is required.

2 If either CTT05 or CTT06 is present, then the other is required.

**Semantic Notes:**

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

### Data Element Summary

<u>Ref.</u>	<u>Data</u>		<u>Base</u>	<u>User</u>
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
CTT01	354	<b>Number of Line Items</b>	M N0 1/6	M
		Total number of line items in the transaction set		
CTT02	347	<b>Hash Total</b>	O R 1/10	
		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.		
		<b>Sum of quantities in element PO102.</b>		

**Segment:** **SE** Transaction Set Trailer  
**Position:** 030  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**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)  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:** 1 SE is the last segment of each transaction set.

### Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
SE01	96	Number of Included Segments	M N0 1/10	M
		Total number of segments included in a transaction set including ST and SE segments		
SE02	329	Transaction Set Control Number	M AN 4/9	M
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
		<b>This number must match the transaction set control number (ST02) in the transaction set header segment.</b>		

## APPENDIX

### Sample 855 Transaction Set

ISA~00~ ~00~ ~ZZ~SUPPLIER ~01~DISTY ~060717~1905~U~00401~000045812~0~T~|  
GS~PR~ SUPPLIER ~DISTY~20060717~1905~45813~X~004010  
ST~855~91309  
BAK~00~AC~P7962206580~20060717~~~~4396736~20060717  
PO1~1~2~EA~14.25~PE~BP~636121~VP~37004-25  
ACK~IC~2~EA~067~20060802  
DTM~002~20060802  
CTT~1~2  
SE~7~91309  
GE~1~45813  
IEA~1~00004581