



**Inbound 850 (Purchase Order)  
X12 Specification  
for  
Release 003040**

**The purpose of this document is to describe the suggested X12 specification to be used to transport Purchase Order data to the Earle M. Jorgensen Co. from its Trading Partners.**

# I850 X12 - Inbound Purchase Order

## Purpose:

The segment set described in this document comprises the necessary information to submit a single purchase order to the Earle M. Jorgensen Co. via EDI. Record sets will be created in lieu of paper purchase orders for Trading Partners creating ANSI X12 850 EDI documents.

## General Conventions:

**Bold format** indicates literal values. *Italicized format* indicates specific field layout.

The Requirement Designator on segments is defined as follows:

<b>M</b>	Mandatory
<b>O</b>	Optional
<b>C</b>	Conditional
<b>X</b>	Conditional

## Note:

Please note on the Segment Set Structure page the Requirement Designator has many Optional segments. Only those segments marked with "M" are Mandatory segments. Optional segments should only be used to convey necessary information.

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## Segment Set Structure

**Table 1**

PO S NO	SEG. ID	NAME	REQ DES	MAX USE	LOOP	NOTES & COMMENTS
010	ST	Transaction Set Header	M	1		
020	BEG	Beginning Segment for Purchase Order	M	1		
030	NTE	Note/Special Instruction	F	10		
050	REF	Reference Numbers	O	1		
060	PER	Administrative Communications Contact	O	3		
080	FOB	F.O.B. Related Instructions	O	1		
150	DTM	Date/Time Reference	O	1		
210	PWK	Paperwork	O	25		
220	PKG	Marking, Packaging, Loading	O	200		
240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
250	TD3	Carrier Details (Equipment)	O	12		
290	N9	Reference Number	O	1	N9	
300	MSG	Message Text	O	10		
310	N1	Name	M	1	N1	Loop N1 is optional.
360	PER	Administrative Communications Contact	O	3		

**Table 2**

PO S NO	SEG. ID	NAME	REQ DES	MAX USE	LOOP	NOTES & COMMENTS
010	PO1	Baseline Item Data	M	1	PO1	PO102 is required. Only if pricing is different than PO1
040	CTP	Pricing Information	O	25		
050	PID	Product/Item Description	O	1	PID	
060	MEA	Measurements	O	10		
070	PWK	Paperwork	O	25		
110	PER	Administrative Communications Contact	O	3		
230	SCH	Line Item Schedule	O	200		
300	PKG	Marking, Packaging, Loading	O	200		

**Table 3**

PO S NO	SEG. ID	NAME	REQ DES	MAX USE	LOOP	NOTES & COMMENTS
010	CTT	Transaction Totals	M	1		
030	SE	Transaction Set Trailer	M	1		

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## ST

### Transaction Set Header

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

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	143	Transaction Set Identifier Code	M	ID	3/3	<b>850</b>
02	329	Transaction Set Control Number	M	AN	4/9	Generated

## BEG

### Beginning Segment for Purchase Order

To indicate the beginning of the purchase order transaction set and transmit identifying numbers and dates.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	353	Transaction Set Purpose Code	M	ID	2/2	<b>00</b> Original <b>06</b> Confirm
02	92	Purchase Order Type Code	M	ID	2/2	<b>NE</b> New Order <b>CF</b> Confirm
03	324	Purchase Order Number	M	AN	1/22	
04	328	Release Number	O	AN	1/30	
05	323	Purchase Order Date	M	DT	6/6	YYMMDD
06	367	Contract Number	O	AN	1/30	
07	587	Acknowledgment Type	O	ID	2/2	Not Used
08	1019	Invoice Type Code	O	ID	3/3	Not Used

## NTE

### Note/Special Instruction

To transmit information in a free-form format, if necessary, for comment or special instruction.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	363	Note Reference Code	O	ID	3/3	<b>PUR</b> Purchasing <b>ORI</b> Order Instructions
02	3	Free Form Message	M	AN	1/60	

## REF

### Reference Numbers

To specify identifying numbers.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	128	Reference Number Qualifier	M	ID	2/2	<b>BR</b> Sales Office Number
02	127	Reference Number	X	AN	1/30	At least one of REF02 or REF03 is required. Assigned Sales Office number required if REF01 is <b>BR</b> .
03	352	Description	X	AN	1/80	Not Used

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## PER

### Administrative Communications Contact

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

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	366	Contact Function Code	M	ID	2/2	<b>BD</b> Buyer Name or Dept. <b>OC</b> Order Contact
02	93	Name	O	AN	1/35	
03	365	Communication Number Qualifier	X	ID	2/2	<b>TE</b> Telephone
04	364	Communication Number	X	AN	1/14	Required if PER03 is used.
05	365	Communication Number Qualifier	X	ID	2/2	<b>AP</b> Alternate Telephone
06	364	Communication Number	X	AN	1/14	Required if PER05 is used.

## FOB

### F.O.B. Related Instructions

To specify transportation instructions related to shipment.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	146	Shipment Method of Payment	M	ID	2/2	<b>PP</b> Prepaid <b>CC</b> Collect
02	309	Location Qualifier	X	ID	1/2	<b>OR</b> Ship Point <b>DE</b> Destination <b>FE</b> Frt. Equalize Point <b>ZZ</b> Default Required if FOB03 is used.
03	352	Description	O	AN	1/80	
04	334	Transportation Terms Qualifier Code	O	ID	2/2	<b>ZZ</b> Standard Routing
05	335	Transportation Terms Code	X	ID	3/6	Required if FOB04 is used.
06	309	Location Qualifier	X	ID	1/2	Required if FOB07 is used
07	352	Description	O	AN	1/80	
08	54	Risk of Loss Qualifier	O	ID	2/2	Not Used
09	352	Description	X	AN	1/80	Not Used

## DTM

### Date/Time Reference

To specify pertinent dates and times

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	374	Date/Time Qualifier	M	ID	3/3	<b>081</b> Requested for Shipment
02	373	Date	X	DT	6/6	<b>YYMMDD</b> At least one of DTM02, DTM03 or DTM06 is required
03	337	Time	X	TM	4/4	<b>HHMM</b>
04	623	Time Code	O	ID	2/2	
05	624	Century	O	N0	2/2	
06	1250	Date Time Period Format Qualifier	X	ID	2/3	Required if DTM07 is used.
07	1251	Date Time Period	X	AN	1/35	Required if DTM06 is used.

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## PWK

### Paperwork

To specify the type and transmission of paperwork or supporting information.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	755	Report Type Code	M	ID	2/2	<b>13</b> Certified Test Report
02	756	Report Transmission Code	O	ID	2/2	<b>WS</b> W/Shipment <b>IM</b> W/Invoice
03	757	Report Copies Needed	O	N0	1/2	
04	98	Entity Identifier Code	O	ID	2/2	Not Used
05	66	Identification Code Qualifier	X	ID	1/2	<b>1</b> DUNS <b>9</b> DUNS+4 Required if PWK06 is used. Required if PWK05 is used.
06	67	Identification Code	X	AN	2/17	
07	352	Description	O	AN	1/80	
08	C002	Actions Indicated	O	C-ID	1/10	Not Used

## PKG

### Marking, Packaging, Loading

To describe marking, packaging, loading and unloading requirements.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	349	Item Description Type	X	ID	1/1	Required if PKG05 is used.
02	753	Packaging Characteristic Code	O	ID	1/5	
03	559	Agency Qualifier Code	X	ID	2/2	<b>ST</b> Steel <b>AA</b> Aluminum Required if PKG04 is used. At least one of PKG04, PKG05 or PKG06 is required.
04	754	Packaging Description Code	X	AN	1/7	
05	352	Description	X	AN	1/80	
06	400	Unit Load Option Code	X	ID	2/2	

## TD5

### Carrier Details (Routing Sequence/Transit Time)

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

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	133	Routing Sequence Code	O	ID	1/2	<b>B</b> Origin/Delivery Carrier <b>O</b> Origin Carrier
02	66	Identification Code Qualifier	X	ID	1/2	<b>2</b> SCAC
03	67	Identification Code	X	AN	2/17	SCAC Code
04	91	Transportation Method/Type Code	X	ID	1/2	Use only if SCAC code not known.
05	387	Routing	X	AN	1/35	Use only if SCAC code not known.
06	368	Shipment/Order Status Code	O	ID	2/2	Not Used
07	309	Location Qualifier	O	ID	1/2	Not Used
08	310	Location Identifier	X	AN	1/30	Not Used
09	731	Transit Direction Code	O	ID	2/2	Not Used
10	732	Transit Time Direction Qualifier	O	ID	2/2	Not Used
11	733	Transit Time	X	R	1/4	Not Used
12	284	Service Level Code	O	ID	2/2	Not Used

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## TD3

### Carrier Details (Equipment)

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

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	40	Equipment Description Code	M	ID	2/2	
02	206	Equipment Initial	O	AN	1/4	Not Used
03	207	Equipment Number	X	AN	1/10	Not Used
04	187	Weight Qualifier	O	ID	1/2	Not Used
05	81	Weight	X	R	1/10	Not Used
06	355	Unit or Basis for Measurement Code	X	ID	2/2	Not Used
07	102	Ownership Code	O	ID	1/1	Not Used
08	407	Seal Status Code	O	ID	2/2	Not Used
09	225	Seal Number	O	AN	2/15	Not Used

## N9

### Reference Number

To transmit identifying numbers and descriptive information as specified by the reference number qualifier.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	128	Reference Number Qualifier	M	ID	2/2	<b>BC</b> Buyers Contract # <b>GC</b> Gov't Contract #
02	127	Reference Number	X	AN	1/30	At least one of N902 or N903 is required.
03	369	Free-form Description	X	AN	1/45	
04	373	Date	O	DT	6/6	YYMMDD
05	337	Time	X	TM	4/4	HHMM
06	623	Time Code	O	ID	2/2	Required if N906 is used. Time zone of N905

## MSG

### Message Text

To provide a free form format that would allow the transmission of text information.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	933	Free-form Message	M	AN	1/264	
02	934	Printer Carriage Control Code	O	ID	2/2	Not used

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## N1

### Name

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

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	98	Entity Identifier Code	M	ID	2/2	<b>BS</b> Bill & Ship To <b>ST</b> Ship To <b>BT</b> Bill To
02	93	Name	X	AN	1/35	At least one of N102 or N103 is required.
03	66	Identification Code Qualifier	X	ID	1/2	<b>1</b> DUNS <b>9</b> DUNS+4 Required if N104 is used.
04	67	Identification Code	X	AN	2/17	Required if N103 is used.
05	706	Entity Relationship Code	O	ID	2/2	Not Used
06	98	Entity Identifier Code	M	ID	2/2	Not Used

## PER

### Administrative Communications Contact

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

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	366	Contact Function Code	M	ID	2/2	<b>BD</b> Buyer Name or Dept. <b>OC</b> Order Contact
02	93	Name	O	AN	1/35	
03	365	Communication Number Qualifier	X	ID	2/2	<b>TE</b> Telephone
04	364	Communication Number	X	AN	1/80	Required if PER03 is used.
05	365	Communication Number Qualifier	X	ID	2/2	<b>AP</b> Alternate Telephone
06	364	Communication Number	X	AN	1/80	Required if PER05 is used.



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## PO1

### Baseline Item Data

To specify basic and most frequently used line item data.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	350	Assigned Identification	O	AN	1/11	Your P.O. line number.
02	330	Quantity Ordered	M	R	1/9	
03	355	Unit or Basis for Measurement Code	M	ID	2/2	<b>FT</b> Feet <b>IN</b> Inches
04	212	Unit Price	X	R	1/14	Required if PO105 is used.
05	639	Basis of Unit Price Code	O	ID	2/2	
06	235	Product/Service ID Qualifier	M	ID	2/2	<b>BP</b> Buyer's Part Number <b>PN</b> EMJ Part Number Part Number
07	234	Product/Service ID	M	AN	1/30	
08	235	Product/Service ID Qualifier	O	ID	2/2	<b>HN</b> Heat Number Heat Number
09	234	Product/Service ID	X	AN	1/30	
10	235	Product/Service ID Qualifier	O	ID	2/2	
11	234	Product/Service ID	X	AN	1/30	Not Used
12	235	Product/Service ID Qualifier	O	ID	2/2	
13	234	Product/Service ID	X	AN	1/30	Not Used
14	235	Product/Service ID Qualifier	O	ID	2/2	
15	234	Product/Service ID	X	AN	1/30	Not Used
16	235	Product/Service ID Qualifier	O	ID	2/2	
17	234	Product/Service ID	X	AN	1/30	Not Used
18	235	Product/Service ID Qualifier	O	ID	2/2	
19	234	Product/Service ID	X	AN	1/30	Not Used
20	235	Product/Service ID Qualifier	O	ID	2/2	
21	234	Product/Service ID	X	AN	1/30	Not Used
22	235	Product/Service ID Qualifier	O	ID	2/2	
23	234	Product/Service ID	X	AN	1/30	Not Used
24	235	Product/Service ID Qualifier	O	ID	2/2	
25	234	Product/Service ID	X	AN	1/30	Not Used

## CTP

### Pricing Information

To specify pricing information.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	687	Class of Trade Code	O	ID	2/2	Not Used
02	236	Price Identifier Code	X	ID	3/3	Required if FOB03 is used. <b>CON</b> Contract Price <b>QTE</b> Quoted Price <b>CAT</b> Catalog Price
03	212	Unit Price	O	R	1/14	
04	380	Quantity	O	R	1/15	
05	355	Unit or Basis for Measurement Code	X	ID	2/2	<b>FT</b> Feet <b>IN</b> Inches
06	648	Price Multiplier Qualifier	O	ID	3/3	Not Used
07	649	Multiplier	X	R	1/10	Not Used
08	782	Monetary Amount	O	R	1/15	Use only if CTB03 is not used.
09	639	Basis of Unit Price Code	O	ID	2/2	Not Used

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## PID

### Product/Item Description

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

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	349	Item Description Type	M	ID	1/1	<b>F</b> Free Form
02	750	Product/Process Characteristic Code	O	ID	2/3	Not Used
03	559	Agency Qualifier Code	X	ID	2/2	Not Used
04	751	Product Description Code	X	AN	1/12	Not Used
05	352	Description	X	AN	1/80	Required if PID04 is not used
06	752	Surface/Layer/Position Code	O	ID	2/2	Not Used
07	822	Source Subqualifier	O	AN	1/15	Not Used
08	1073	Yes/No Condition or Response	O	ID	1/1	Not Used

## MEA

### Measurements

To specify physical measurements or counts, including dimensions, tolerances, variances and weights.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	737	Measurement Reference ID Code	O	ID	2/2	
02	738	Measurement Qualifier	O	ID	1/3	<b>LN</b> Length <b>OD</b> Outside Diameter <b>WL</b> Wall Thickness
03	739	Measurement Value	X	R	1/10	Required if MEA05, MEA06 and MEA08 are not used
04	C001	Composite Unit of Measure	X			<b>FT</b> Foot <b>IN</b> Inch Required if MEA03, MEA05 or MEA06 is used.
05	740	Range Minimum	X	R	1/10	Required if MEA03, MEA06 and MEA08 are not used
06	741	Range Maximum	X	R	1/10	Required if MEA03, MEA05 and MEA08 are not used
07	935	Measurement Significance Code	O	ID	2/2	Not Used
08	936	Measurement Attribute Code	X	ID	2/2	Not Used
09	752	Surface/Layer/Position Code	O	ID	2/2	Not Used
10	1373	Measurement Method or Device	X	ID	2/4	Not Used

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## PWK

### Paperwork

To specify the type and transmission of paperwork or supporting information.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	755	Report Type Code	M	ID	2/2	<b>13</b> Certified Test Report
02	756	Report Transmission Code	O	ID	2/2	<b>WS</b> W/Shipment <b>IM</b> W/Invoice
03	757	Report Copies Needed	O	NO	1/2	
04	98	Entity Identifier Code	O	ID	2/2	Not Used
05	66	Identification Code Qualifier	X	ID	1/2	<b>1</b> DUNS <b>9</b> DUNS+4 Required if PWK06 is used. Required if PWK05 is used.
06	67	Identification Code	X	AN	2/17	
07	352	Description	O	AN	1/80	
08	C002	Actions Indicated	O	C-ID	1/10	Not Used

## PER

### Administrative Communications Contact

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

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	366	Contact Function Code	M	ID	2/2	<b>BD</b> Buyer Name or Dept. <b>OC</b> Order Contact
02	93	Name	O	AN	1/35	
03	365	Communication Number Qualifier	X	ID	2/2	<b>TE</b> Telephone
04	364	Communication Number	X	AN	1/80	Required if PER03 is used.
05	365	Communication Number Qualifier	X	ID	2/2	<b>AP</b> Alternate Telephone
06	364	Communication Number	X	AN	1/80	Required if PER05 is used.

## SCH

### Line Item Schedule

To specify the data for scheduling a specific line item.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	380	Quantity	M	R	1/15	
02	355	Unit or Basis for Measurement Code	M	ID	2/2	<b>FT</b> Feet <b>IN</b> Inches
03	98	Entity Identifier Code	O	ID	2/2	Not Used
04	93	Name	X	AN	1/35	Not Used
05	374	Date/Time Qualifier	M	ID	3/3	<b>081</b> Requested for Shipment <b>YYMMDD</b>
06	373	Date	M	DT	6/6	<b>HHMM</b>
07	337	Time	O	TM	4/4	<b>HHMM</b>
085	374	Date/Time Qualifier	X	ID	3/3	Required if SCH09 is used.
09	373	Date	O	DT	6/6	<b>YYMMDD</b>
10	337	Time	O	TM	4/4	<b>HHMM</b>
11	326	Request Reference Number	O	AN	1/45	
12	350	Assigned Identification	O	AN	1/11	Schedule Identification

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## PKG

### Marking, Packaging, Loading

To describe marking, packaging, loading and unloading requirements.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	349	Item Description Type	X	ID	1/1	Required if PKG05 is used.
02	753	Packaging Characteristic Code	O	ID	1/5	
03	559	Agency Qualifier Code	X	ID	2/2	<b>ST</b> Steel <b>AA</b> Aluminum
04	754	Packaging Description Code	X	AN	1/7	Required if PKG04 is used. At least one of PKG04, PKG05 or PKG06 is required.
05	352	Description	X	AN	1/80	
06	400	Unit Load Option Code	X	ID	2/2	

## CTT

### Transaction Totals

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

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	354	Number of Line Items	M	NO	1/6	Count of PO1 segments.
02	347	Hash Total	O	R	1/10	
03	81	Weight	O	R	1/10	
04	355	Unit or Basis for Measurement Code	X	ID	2/2	Required if CTT03 is used.
05	183	Volume	O	R	1/8	
06	355	Unit or Basis for Measurement Code	X	ID	2/2	Required if CTT05 is used.
07	352	Description	O	AN	1/80	

## SE

### Transaction Set Trailer

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

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	96	Number of Included Segments	M	NO	1/10	
02	329	Transaction Set Control Number	M	AN	4/9	As specified on ST segment.