



## Specifications for ANSI X12 4010 856

# SUMMARY

This transaction set is used to communicate to Danfoss Power Solutions the contents of a shipment.

Danfoss Power Solutions uses the ANSI X12 – 856 (ASN) specification version 4010. This specification is included as well as examples of its uses.

### Special Characters

#### Delimiters

Danfoss Power Solutions uses the asterisk (\*) for the element separator, the tilde (~) for the segment terminator, and the colon (:) for the sub-element separator.

### VAN Information - Value Added Network

Danfoss Power Solutions currently uses the IBM Sterling B2B Integration network, including interconnects to other networks and communication protocols.

Please contact [srhelp@us.ibm.com](mailto:srhelp@us.ibm.com) or visit <http://www.ibm.com/support>.

### ISA/GS Information

#### Test

ISA ID qualifier: **ZZ**

ISA ID: **DANFOSSPSTST**

GS ID: **DANFOSSPSTST**

#### Production

ISA ID qualifier: **ZZ**

ISA ID: **DANFOSSPS**

GS ID: **DANFOSSPS**

#### EDI Contact:

[PS.EDI@Danfoss.com](mailto:PS.EDI@Danfoss.com)



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# 856

## Advance Ship Notice/Manifest

Functional Group = **SH**

This Standard contains the format and establishes the data contents of the Advance 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, and type of packaging, marking, carrier information, and configuration of goods within the transportation equipment.



# Specifications for ANSI X12 4010 856

## Segment: **ISA** Interchange Control Header

**Position:** 002

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

### Syntax Notes:

### Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
ISA01	I01	<b>Authorization Information Qualifier</b> Code to identify the type of information in the Authorization Information 00 No Authorization Information Present (No Meaningful Information in I02)	M ID 2/2	M
ISA02	I02	<b>Authorization Information</b> 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) <i>Will contain blanks.</i>	M AN 10/10	M
ISA03	I03	<b>Security Information Qualifier</b> Code to identify the type of information in the Security Information 00 No Security Information Present (No Meaningful Information in I04)	M ID 2/2	M
ISA04	I04	<b>Security Information</b> 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) <i>Will contain blanks.</i>	M AN 10/10	M
ISA05	I05	<b>Interchange Sender ID Qualifier</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified <i>Assigned by Supplier.</i>	M ID 2/2	M
ISA06	I06	<b>Interchange Sender ID</b> 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	M AN 15/15	M



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		sender ID element			
		<i>Test and Production IDs to be assigned by Supplier.</i>			
ISA07	I05	<b>Interchange Receiver ID Qualifier</b>	M	ID 2/2	M
		Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified			
		<b>ZZ</b>			
ISA08	I07	<b>Interchange Receiver ID</b>	M	AN 15/15	M
		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			
		<b>Test = DANFOSSPSTST</b>			
		<b>Production = DANFOSSPS</b>			
ISA09	I08	<b>Interchange Date</b>	M	DT 6/6	M
		Date of the interchange			
ISA10	I09	<b>Interchange Time</b>	M	TM 4/4	M
		Time of the interchange			
ISA11	I10	<b>Interchange Control Standards Identifier</b>	M	ID 1/1	M
		Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer			
		U U.S. EDI Community of ASC X12, TDCC, and UCS			
ISA12	I11	<b>Interchange Control Version Number</b>	M	ID 5/5	M
		This version number covers the interchange control segments			
		00400 Standard Issued as ANSI X12.5-1997			
ISA13	I12	<b>Interchange Control Number</b>	M	N0 9/9	M
		A control number assigned by the interchange sender			
ISA14	I13	<b>Acknowledgment Requested</b>	M	ID 1/1	M
		Code sent by the sender to request an interchange acknowledgment (TA1)			
		0 No Acknowledgment Requested			
ISA15	I14	<b>Usage Indicator</b>	M	ID 1/1	M
		Code to indicate whether data enclosed by this interchange envelope is test, production or information			
		P Production Data			
		T Test Data			
ISA16	I15	<b>Sub-Element Separator</b>	M	AN 1/1	M
		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			
		<i>Danfoss PS suggests using the Greater-Than symbol (&gt;).</i>			



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**Segment:** **GS** Functional Group Header

**Position:** 005

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:**

**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>
GS01	479	<b>Functional Identifier Code</b> Code identifying a group of application related transaction sets SH Ship Notice/Manifest (856)	M ID 2/2	M
GS02	142	<b>Application Sender's Code</b> Code identifying party sending transmission; codes agreed to by trading partners <i>To be determined at implementation.</i>	M AN 2/15	M
GS03	124	<b>Application Receiver's Code</b> Code identifying party receiving transmission; codes agreed to by trading partners <i>Defined by Customer.</i>	M AN 2/15	M
GS04	373	<b>Date</b> Date expressed as CCYYMMDD	M DT 8/8	M
GS05	337	<b>Time</b> 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	M
GS06	28	<b>Group Control Number</b> Assigned number originated and maintained by the sender	M N0 1/9	M
GS07	455	<b>Responsible Agency Code</b> Code used in conjunction with Data Element 480 to identify the issuer of the standard X Accredited Standards Committee X12	M ID 1/2	M
GS08	480	<b>Version / Release / Industry Identifier Code</b> Code indicating the version, release, sub release, 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	M AN 1/12	M



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number; positions 4-6 are the release and sub release, 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

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                 Procedures Review Board through October 1997



## Specifications for ANSI X12 4010 856

**Segment:** **ST** Transaction Set Header  
**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:**

### 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>
ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	M ID 3/3	M
ST02	329	<b>Transaction Set Control Number</b> 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	M



## Specifications for ANSI X12 4010 856

**Segment:** **BSN** Beginning Segment for Ship Notice  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set  
**Syntax Notes:** 1 If BSN07 is present, then BSN06 is required.

### 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>
BSN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 00 Original	M ID 2/2	M
BSN02	396	<b>Shipment Identification</b> A unique control number assigned by the original shipper to identify a specific shipment	M AN 2/30	M
BSN03	373	<b>Ship Notice Creation Date</b> Date expressed as CCYYMMDD	M DT 8/8	M
BSN04	337	<b>Ship Notice Creation Time</b> 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	M





## Specifications for ANSI X12 4010 856

**Segment:** **DTM** Date/Time Reference (Shipped)  
**Position:** 040  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify pertinent dates and times  
**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.

### 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>
DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 011 Shipped	M ID 3/3	M
DTM02	373	<b>Date</b> Date expressed as CCYYMMDD	X DT 8/8	
DTM03	337	<b>Time</b> 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) <i>If present, contains time of shipment.</i>	X TM 4/8	
DTM04	623	<b>Time Code</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O ID 2/2	



Specifications for ANSI X12 4010 856

**Segment:** **DTM** Date/Time Reference (Delivery)  
**Position:** 040  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify pertinent dates and times  
**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.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Base</u>	<u>User</u>
<u>Des.</u>	<u>Element</u>	<u>Attributes</u>	<u>Attributes</u>
DTM01	374	M ID 3/3	M
	<b>Date/Time Qualifier</b>		
	Code specifying type of date or time, or both date and time		
	017 Estimated Delivery Date		
DTM02	373	X DT 8/8	
	<b>Date</b>		
	Date expressed as CCYYMMDD		
DTM03	337	X TM 4/8	
	<b>Time</b>		
	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)		
	<i>If present, contains time of shipment.</i>		
DTM04	623	O ID 2/2	
	<b>Time Code</b>		
	Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow		

Specifications for ANSI X12 4010 856

**Segment:** **HL** Hierarchical Level (Shipment)  
**Position:** 010  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**

**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>
HL01	628	<b>Hierarchical ID Number</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure <i>Will contain '1' at the Shipment level.</i>	M AN 1/12	M
HL02	734	<b>Hierarchical Parent ID Number</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to <i>Will contain blanks at the Shipment level.</i>	O AN 1/12	
HL03	735	<b>Hierarchical Level Code</b> Code defining the characteristic of a level in a hierarchical structure S Shipment	M ID 1/2	M
HL04	736	<b>Hierarchical Child Code</b> Code indicating if there are hierarchical child data segments subordinate to the level being described 1 Additional Subordinate HL Data Segment in This Hierarchical Structure.	O ID 1/1	



Specifications for ANSI X12 4010 856

**Segment:** **TD1** Carrier Details (Quantity and Weight)  
**Position:** 110  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**Purpose:** To specify the transportation details relative to commodity, weight, and quantity  
**Syntax Notes:**

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

**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>
TD101	103	<b>Packaging Code</b> Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required CTN Carton 71 Not Otherwise Specified	O	AN 3/5
TD102	80	<b>Lading Quantity</b> Number of units (pieces) of the lading commodity	X	N0 1/7
TD106	187	<b>Weight Qualifier</b> Code defining the type of weight G Gross Weight	O	ID 1/2
TD107	81	<b>Weight</b> Numeric value of weight <i>Gross Weight (in pounds) of the Shipment.</i>	X	R 1/10
TD108	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 PG Pounds Gross	X	ID 2/2



## Specifications for ANSI X12 4010 856

**Segment:** **TD5** Carrier Details (Routing Sequence/Transit Time)  
**Position:** 120  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify the carrier and sequence of routing and provide transit time information  
**Syntax Notes:**

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

### Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
TD501	133	<b>Routing Sequence Code</b> Code describing the relationship of a carrier to a specific shipment movement B Origin/Delivery Carrier (Any Mode)	M ID 1/2
TD502	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 2 Standard Carrier Alpha Code (SCAC)	M ID 1/2
TD503	67	<b>Identification Code</b> Code identifying a party or other code <i>Standard Carrier Alpha Code</i>	M AN 2/80
TD504	91	<b>Transportation Method/Type Code</b> Code specifying the method or type of transportation for the shipment	X ID 1/2



## Specifications for ANSI X12 4010 856

**Segment:** **REF** Reference Identification (Packing List Number)  
**Position:** 150  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**  
1 At least one of REF02 or REF03 is required.  
2 If either C04003 or C04004 is present, then the other is required.  
3 If either C04005 or C04006 is present, then the other is required.

### 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>
REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification PK Packing List Number	M ID 2/3	M
REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	
REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80	



Specifications for ANSI X12 4010 856

Segment: **REF** Reference Identification (Bill of Lading Number)

**Position:** 150  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
  - 2 If either C04003 or C04004 is present, then the other is required.
  - 3 If either C04005 or C04006 is present, then the other is required.

**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>
REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification BM Bill of Lading Number	M ID 2/3	M
REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	
REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80	



Specifications for ANSI X12 4010 856

Segment: **N1** Name

- Position:** 410
- Loop:** N1 Mandatory
- Level:** Detail
- Usage:** Mandatory
- Max Use:** 1
- Purpose:** To identify a party by type of organization, name, and code
- Syntax Notes:**
  - 1 At least one of N102 or N103 is required.
  - 2 If either N103 or N104 is present, then the other is required.

Data Element Summary

Ref.	Data	Name	Base	User
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual BT Bill-to-Party BY Buying Party (Purchaser) SE Selling Party SF Ship From ST <b>Ship To</b> SU <b>Supplier ID</b>	M ID 2/3	M
N102	93	<b>Name</b> Free-form name	X AN 1/60	
N103	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent	X ID 1/2	>>
N104	67	<b>Identification Code</b> Code identifying a party or other code <i>If N103 = '91', contains Vendor's assigned code.</i> <i>If N103 = '92', contains Customer's assigned code.</i>	X AN 2/80	>>

- **Ship To (ST) and Supplier ID (SU) are mandatory for Danfoss PS**





## Specifications for ANSI X12 4010 856

**Segment:** **N2** Additional Name Information  
**Position:** 420  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify additional names or those longer than 35 characters in length  
**Syntax Notes:**

### 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>
N201	93	Name Free-form name <i>Additional name.</i>	M AN 1/60	M
N202	93	Name Free-form name <i>Additional name.</i>	O AN 1/60	

Specifications for ANSI X12 4010 856

**Segment:** N3 Address Information  
**Position:** 430  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**

Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
N301	166	Address Information Address information <i>First line of address.</i>	M AN 1/55	M
N302	166	Address Information Address information <i>Second line of address.</i>	O AN 1/55	



## Specifications for ANSI X12 4010 856

**Segment:** **N4 Geographic Location**  
**Position:** 440  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the geographic place of the named party  
**Syntax Notes:** 1 If N406 is present, then N405 is required.

### 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>
N401	19	<b>City Name</b> Free-form text for city name	O AN 2/30	
N402	156	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2	
N403	116	<b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15	
N404	26	<b>Country Code</b> Code identifying the country	O ID 2/3	

Specifications for ANSI X12 4010 856

**Segment:** **HL** Hierarchical Level (Item)  
**Position:** 385  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**

**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>
HL01	628	<b>Hierarchical ID Number</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure <i>Next sequential Hierarchical ID Number (previous HL01 number + 1).</i>	M AN 1/12	M
HL02	734	<b>Hierarchical Parent ID Number</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to <i>Hierarchical ID Number (HL01) from the previous Shipment-level 'HL' segment.</i>	O AN 1/12	
HL03	735	<b>Hierarchical Level Code</b> Code defining the characteristic of a level in a hierarchical structure I Item	M ID 1/2	M
HL04	736	<b>Hierarchical Child Code</b> Code indicating if there are hierarchical child data segments subordinate to the level being described 0 No Subordinate HL Segment in This Hierarchical Structure.	O ID 1/1	



Specifications for ANSI X12 4010 856

**Segment:** **LIN** Item Identification  
**Position:** 390  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify basic item identification data  
**Syntax Notes:** 1 If either LIN04 or LIN05 is present, then the other is required.

Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
LIN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set <i>Purchase Order Line Number</i>	M AN 1/20	
LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number	M ID 2/2	M
LIN03	234	Product/Service ID Identifying number for a product or service <i>Danfoss PS Part Number</i>	M AN 1/48	M
LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) VP Vendor's (Seller's) Part Number	X ID 2/2	
LIN05	234	Product/Service ID Identifying number for a product or service <i>Supplier Part Number</i>	X AN 1/48	



## Specifications for ANSI X12 4010 856

**Segment:** **SN1** Item Detail (Shipment)  
**Position:** 400  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify line-item detail relative to shipment  
**Syntax Notes:** 1 If either SN105 or SN106 is present, then the other is required.

### Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
SN101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set <i>Ship Notice Line Number.</i>	<b>O AN 1/20</b>	
SN102	382	<b>Number of Units Shipped</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	<b>M R 1/10</b>	<b>M</b>
SN103	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 EA Each	<b>M ID 2/2</b>	<b>M</b>



## Specifications for ANSI X12 4010 856

### Segment: **PRF** Purchase Order Reference

**Position:** 050

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To provide reference to a specific purchase order

**Syntax Notes:**

### 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>
PRF01	324	<b>Purchase Order Number</b> Identifying number for Purchase Order assigned by the orderer/purchaser <i>Customer's Purchase Order Number.</i>	M AN 1/22	M
PRF02	328	<b>Release Number</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction <i>Customer's Release Number.</i>	O AN 1/30	
PRF04	373	<b>Purchase Order Date</b> Date expressed as CCYYMMDD <i>Customer's Purchase Order Date.</i>	O DT 8/8	



## Specifications for ANSI X12 4010 856

**Segment:** **CTT** Transaction Totals  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**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.

### 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	Number of Line Items Total number of line items in the transaction set <i>Number of HL segments in this transaction set.</i>	M N0 1/6	M





## Specifications for ANSI X12 4010 856

**Segment:** **SE** Transaction Set Trailer  
**Position:** 020  
**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:

### 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>
SE01	96	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	M N0 1/10	M
SE02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <i>This number must match the Transaction Set Control Number (ST02) value.</i>	M AN 4/9	M



## Specifications for ANSI X12 4010 856

**Segment:** **GE** Functional Group Trailer  
**Position:** 030  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of a functional group and to provide control information  
**Syntax Notes:**

### 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>
GE01	97	<b>Number of Transaction Sets Included</b> 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	M
GE02	28	<b>Group Control Number</b> Assigned number originated and maintained by the sender <i>This number must match the Group Control Number (GS06) value.</i>	M N0 1/9	M



## Specifications for ANSI X12 4010 856

**Segment:** **IEA** Interchange Control Trailer  
**Position:** 040  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To define the end of an interchange of zero or more functional groups and interchange-related control segments

### Syntax Notes:

### 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>
IEA01	I16	<b>Number of Included Functional Groups</b>	M N0 1/5	M
		A count of the number of functional groups included in an interchange		
IEA02	I12	<b>Interchange Control Number</b>	M N0 9/9	M
		A control number assigned by the interchange sender		
		<i>This number must match the Interchange Control Number (ISA13) value.</i>		