



856 Ship Notice/Manifest

## EDI IMPLEMENTATION GUIDE

856 ANSI X12 V4010  
Ship Notice/Manifest  
**Regular (Non Steel)**



856 Ship Notice/Manifest

# 856 Ship Notice/Manifest

Functional Group ID=**SH**

## Introduction:

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

Suppliers must have the capability of transmitting almost all of the segments and elements described below. There are many other loops, segments and elements that can be used in an AIAG v4010 856 but those are not described in this document. In general, Flex-N-Gate can successfully receive any AIAG-compliant data, but the FNG software will only process and use the entries described below.

The far left column below describes Flex-N-Gate's requirements. Again, almost every segment and element in this 856 will be marked "Always", indicating that it must be sent in every 856, and that it must be sent in the specified loops. The few exceptions to these rules will be noted in the comments.

Please note that Flex-N-Gate will use the BSN02 (Shipment ID) as a packing slip number. REF\*BM and REF\*PK can be transmitted in the 856, but the FNG software will ignore these segments. Ideally, suppliers will use the same value for SID, BOL, and Packing Slip.

**REVISIONS:**

- 1) 5/6/2004
  - a. Added BSN01 Transaction Set Action Codes of '01' Cancellation and '04' Replace.
  - b. Added Item Level SN1 segment
  - c. Item level MEA and REF segment requirements for steel coil shipment ASN's.
  - d. Added segment descriptions to ASN examples.
  - e. Added Steel Coil ASN example.
- 2) 11/28/07
  - a. Changed usage of CLD loop from 200 to 500 pg20
  - b. Changed usage of REF in CLD loop from 200 to 500 pg21
- 3) 7/08/08
  - a. Added REF to CLD loop in EDI outline, we did not have this listed in outline and has been corrected
- 4) 7/20/11
  - a. Changed usage of DTM segment from AIAG usage O to M
  - b. Added the code '017' to DTM01 segment pg 7
- 5) 04/30/2013
  - a. Removed all Steel references and created separate Spec for Steel.
- 6) 11/07/2013
  - a. Added optional "LT" Lot number to the Specs REF segment page 21(for potential addition of this requirement in the future)
- 7) 06/07/2016
  - a. Added note on the REF LS to ensure that the "S" is not included as part of the ASN should be imbedded in the Serial Barcode of the LABEL only.
- 8) 05/07/2016
  - a. Update the ones that already said FNG always uses them to Mandatory segments.
  - b. Also fixed the REF LS to read Serial not master labels
- 9) 03/06/2017
  - a. Change the SN106 to conditional...
- 10) 06/07/2017
  - a. Change the N1 Comments

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**Heading:**

| <u>FNG Usage</u> | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u>                       | <u>AIAG Usage</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|------------------|-----------------|----------------|-----------------------------------|-------------------|----------------|--------------------|---------------------------|
| Always           | 010             | ST             | Transaction Set Header            | M                 | 1              |                    |                           |
| Always           | 020             | BSN            | Beginning Segment for Ship Notice | M                 | 1              |                    |                           |
| Always           | 040             | DTM            | Date/Time Reference               | M                 | 10             |                    |                           |

**Shipment Level:**

| <u>FNG Usage</u> | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u>                                     | <u>AIAG Usage</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|------------------|-----------------|----------------|---|-------------------|----------------|--------------------|---------------------------|
|                  |                 |                |   |                   |                | 200000             |                           |
| Always           | 010             | HL             | Hierarchical Level                              | M                 | 1              |                    | c1                        |
| Always           | 080             | MEA            | Measurements                                    | O                 | 40             |                    |                           |
| Always           | 110             | TD1            | Carrier Details (Quantity and Weight)           | O                 | 20             |                    |                           |
| Always           | 120             | TD5            | Carrier Details (Routing Sequence/Transit Time) | O                 | 12             |                    |                           |
| Always           | 130             | TD3            | Carrier Details (Equipment)                     | O                 | 12             |                    |                           |
|                  |                 |                |   |                   |                | 200                |                           |
| Always           | 220             | N1             | Name  | O                 | 1              |                    |                           |

**Order Level:**

| <u>FNG Usage</u> | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u>              | <u>AIAG Usage</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|------------------|-----------------|----------------|--------------------------|-------------------|----------------|--------------------|---------------------------|
|                  |                 |                |                          |                   |                | 200000             |                           |
| Always           | 010             | HL             | Hierarchical Level       | M                 | 1              |                    | c1                        |
| Always           | 020             | LIN            | Item Identification      | M                 | 1              |                    |                           |
| Always           | 030             | SN1            | Item Detail (Shipment)   | M                 | 1              |                    |                           |
| Always           | 050             | PRF            | Purchase Order Reference | M                 | 1              |                    |                           |
| See comments     | 150             | REF            | Reference Identification | M                 | >1             |                    |                           |
|                  |                 |                |                          |                   |                | 200                |                           |
| Always           | 170             | CLD            | Load Detail              | M                 | 1              |                    |                           |
| See comments     | 180             | REF            | Reference Identification | O                 | 500            |                    |                           |

**Summary:**

|        | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u>             | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|--------|-----------------|----------------|-------------------------|------------------|----------------|--------------------|---------------------------|
| Always | 010             | CTT            | Transaction Totals      | M                | 1              |                    | n1                        |
| Always | 020             | SE             | Transaction Set Trailer | M                | 1              |                    |                           |

**Transaction Set Notes**

- Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

**Transaction Set Comments**

- The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

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

**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:** The transaction Set Control Number (ST02) in this header must match the Transaction Set Control Number (SE02) in the Transaction Set Trailer (SE).

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|------------------|------------------|---------------------|--|-------------------|
| Always           | ST01             | 143                 | <b>Transaction Set Identifier Code</b><br>Code uniquely identifying a Transaction Set<br>856 Ship Notice/Manifest  | <b>M ID 3/3</b>   |
| Always           | ST02             | 329                 | <b>Transaction Set Control Number</b><br>Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | <b>M AN 4/9</b>   |

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**Segment:** **BSN** Beginning Segment for Ship Notice  
**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:**  
**Semantic Notes:**

- 1 BSN03 is the date the shipment transaction set is created.
- 2 BSN04 is the time the shipment transaction set is created.

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|------------------|------------------|---------------------|--|-------------------|
| Always           | <b>BSN01</b>     | <b>353</b>          | <b>Transaction Set Purpose Code</b><br>Code identifying purpose of transaction set<br>00 Original<br>01 Cancellation<br>05 Replace   | <b>M ID 2/2</b>   |
| Always           | <b>BSN02</b>     | <b>396</b>          | <b>Shipment Identification</b><br>A unique control number assigned by the original shipper to identify a specific shipment<br>Unique supplier-assigned number that is not repeated within a one year period when BSN01="00".<br>Will be treated as Packing Slip Number in FNG software.                  | <b>M AN 2/30</b>  |
| Always           | <b>BSN03</b>     | <b>373</b>          | <b>ASN Date</b><br>Date expressed as CCYYMMDD  | <b>M DT 8/8</b>   |
| Always           | <b>BSN04</b>     | <b>337</b>          | <b>ASN Time</b><br>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) | <b>M TM 4/8</b>   |

**Segment:** **DTM** **Date/Time Reference**  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 10  
**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.  
**Semantic Notes:**  
 1 For DTM04, use valid X12 codes such as ED, ET, CD, CT, etc  
**Comments:**

**Data Element Summary**

| <u>FNG</u>   | <u>Ref.</u> | <u>Data</u>    | <u>Name</u>  | <u>Attributes</u> |
|--------------|-------------|----------------|--|-------------------|
| <u>Usage</u> | <u>Des.</u> | <u>Element</u> |  |                   |
| Always       | DTM01       | 374            | <b>Date/Time Qualifier</b><br>Code specifying type of date or time, or both date and time<br>011 Shipped<br>017 Expected   | <b>M ID 3/3</b>   |
| Always       | DTM02       | 373            | <b>Ship Date</b><br>Date expressed as CCYYMMDD   | <b>X DT 8/8</b>   |
| Always       | DTM03       | 337            | <b>Ship Time</b><br>Time expressed in 24-hour clock time as follows:<br>HHMM, or HHMMSS, or HHMMSSD, or<br>HHMMSSDD, where H = hours (00-23), M = minutes<br>(00-59), S = integer seconds (00-59) and DD = decimal<br>seconds; decimal seconds are expressed as follows: D =<br>tenths (0-9) and DD = hundredths (00-99) | <b>X TM 4/8</b>   |
| Always       | DTM04       | 623            | <b>Shipper's Time Zone Code</b>  | <b>O ID 2/2</b>   |

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

**Syntax Notes:**

**Semantic Notes:**

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.  
The HL segment defines a top-down/left-right ordered structure.
  - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
  - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | HL01             | 628                 | <b>Hierarchical ID Number</b><br>A unique number assigned by the sender to identify a particular data segment in a hierarchical structure<br>Use "1" for this occurrence of the HL at the shipment level, increment by 1 for each subsequent HL segment within the transaction. | <b>M AN 1/12</b>  |
| Always           | HL03             | 735                 | <b>Hierarchical Level Code</b><br>Code defining the characteristic of a level in a hierarchical structure<br>S Shipment   | <b>M ID 1/2</b>   |



**Segment:** **MEA** Measurements  
**Loop:** HL Mandatory  
**Level:** Detail -- Shipment  
**Usage:** Optional  
**Max Use:** 40  
**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

**Syntax Notes:**  
**Semantic Notes:** 1 MEA04 defines the unit of measure for MEA03  
**Comments:**

**Data Element Summary**

| <b>FNG Usage</b> | <b>Ref. Des.</b> | <b>Data Element</b> | <b>Name</b>   | <b>Attributes</b> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | MEA01            | 737                 | <b>Measurement Reference ID Code</b><br>Code identifying the broad category to which a measurement applies<br>PD Physical Dimensions  | <b>O ID 2/2</b>   |
| Always           | MEA02            | 738                 | <b>Measurement Qualifier</b><br>Code identifying a specific product or process characteristic to which a measurement applies<br>G Gross Weight<br>N Actual Net Weight   | <b>O ID 1/3</b>   |
| Always           | MEA03            | 739                 | <b>Measurement Value</b><br>The value of the measurement  | <b>X R 1/20</b>   |
| Always           | MEA04            | 355                 | <b>Unit or Basis for Measurement Code</b><br>To identify a composite unit of measure.<br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>Use any valid X12 measurement code | <b>M ID 2/2</b>   |

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**Segment:** **TD1** Carrier Details (Quantity and Weight)  
**Loop:** HL Mandatory  
**Level:** Detail -- Shipment  
**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.  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

| <b>FNG Usage</b> | <b>Ref. Des.</b> | <b>Data Element</b> | <b>Name</b>  | <b>Attributes</b> |
|------------------|------------------|---------------------|--|-------------------|
| Always           | TD101            | 103                 | <b>Packaging Code</b><br>Code identifying the type of packaging<br>Use any valid X12 packaging code. | O AN 3/5          |
| Always           | TD102            | 80                  | <b>Lading Quantity</b><br>Number of units (pieces) of the lading commodity                           | X N0 1/7          |

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**Segment:** **TD5 Carrier Details (Routing Sequence/Transit Time)**  
**Loop:** HL Mandatory  
**Level:** Detail -- Shipment  
**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.

**Semantic Notes**  
**Comments:**

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

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | TD501            | 133                 | <b>Routing Sequence Code</b><br>Code describing the relationship of a carrier to a specific shipment movement<br>B Origin/Delivery Carrier (Any Mode)   | O ID 1/2          |
| Always           | TD502            | 66                  | <b>Identification Code Qualifier</b><br>Code designating the system/method of code structure used for Identification Code (67)<br>2 Standard Carrier Alpha Code (SCAC)  | X ID 1/2          |
| Always           | TD503            | 67                  | <b>Identification Code</b><br>Code identifying a party or other code<br>Use SCAC code of trucking company   | X AN 2/80         |
| Always           | TD504            | 91                  | <b>Transportation Method/Type Code</b><br>Code specifying the method or type of transportation for the shipment<br>Any valid X12 code except mutually defined "ZZ".   | X ID 1/2          |
| Always           | TD507            | 309                 | <b>Location Qualifier</b><br>Code identifying type of location<br>If TD504 = 'A', use code value "OR", meaning Origin (Shipping Point).<br>OR Origin (Shipping Point)<br>PP Pool Point                            | O ID 1/2          |
| Always           | TD508            | 310                 | <b>Location Identifier</b><br>Code which identifies a specific location<br>Give pool code if TD507 is "PP"; give airport code identifier if TD507 is "OR" for an air shipment (i.e. DTW = Detroit Metro Airport). | X AN 1/30         |

**Segment:** **TD3** **Carrier Details (Equipment)**  
**Loop:** HL Mandatory  
**Level:** Detail -- Shipment  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify transportation details relating to the equipment used by the carrier  
**Syntax Notes:** 1 Only one of TD301 or TD310 may be present.  
 2 If TD302 is present, then TD303 is required.  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

| <u>FNG Usage</u>                            | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|---|------------------|---------------------|--|-------------------|
| Always                                      | TD301            | 40                  | <b>Equipment Description Code</b><br>Code identifying type of equipment used for shipment  | X ID 2/2          |
| Any valid X12 code except mutually defined. |                  |                     |  |                   |
| Always                                      | TD302            | 206                 | <b>Equipment Initial</b><br>Prefix or alphabetic part of an equipment unit's identifying number  | O AN 1/4          |
| Always                                      | TD303            | 207                 | <b>Equipment Number</b><br>Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) | X AN 1/10         |

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**Segment:** **REF** Reference Identification

- Loop:** HL Mandatory
- Level:** Detail -- Shipment
- Usage:** Optional
- Max Use:** >1
- Purpose:** To specify identifying information
- Syntax Notes:** 1 At least one of REF02 or REF03 is required.
- Semantic Notes:**
- Comments:** 1 While it is very common for a Bill of Lading and Packing List to be sent in the REF02 at this level, the FNG software will not process this segment. Please see the 830 introductory comments.

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|------------------|------------------|---------------------|---|-------------------|
| See comments     | REF01            | 128                 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>AW Air Waybill Number<br>PO Purchase Order<br>BM Bill of Lading Number<br>MB Master Bill of Lading<br>PK Packing List Number | <b>M ID 2/3</b>   |
| See comments     | REF02            | 127                 | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier  | <b>X AN 1/30</b>  |

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**Segment:** **N1** Name  
**Loop:** HL/N1 **Repeat:** 200  
**Level:** Detail -- Shipment  
**Usage:** Optional  
**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.  
**Semantic Notes:**  
**Comments:**  
 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. This means that what we send you on the 830 should be reflected here...

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|------------------|------------------|---------------------|--|-------------------|
| Always           | <b>N101</b>      | <b>98</b>           | <b>Entity Identifier Code</b><br>Code identifying an organizational entity, a physical location, property or an individual<br>ST Ship To<br>SU Supplier/Manufacturer<br>SF Ship From | <b>M ID 2/3</b>   |
| Always           | <b>N102</b>      | <b>93</b>           | <b>Name</b><br>Free-form name  | <b>X AN 1/60</b>  |
| Always           | <b>N103</b>      | <b>66</b>           | <b>Identification Code Qualifier</b><br>Code designating the system/method of code structure used for Identification Code (67)<br>1 D-U-N-S Number, Dun & Bradstreet                 | <b>X ID 1/2</b>   |
| Always           | <b>N104</b>      | <b>67</b>           | <b>Identification Code</b><br>Code identifying a party or other code   | <b>X AN 2/80</b>  |

**Segment:** **HL Hierarchical Level**  
**Loop:** HL **Repeat:** 200000  
**Level:** Detail -- Order  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.  
The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | HL01             | 628                 | <b>Hierarchical ID Number</b><br>A unique number assigned by the sender to identify a particular data segment in a hierarchical structure<br>Use "1" for this occurrence of the HL at the shipment level, increment by 1 for each subsequent HL segment within the transaction. | <b>M AN 1/12</b>  |
| Always           | HL02             | 734                 | <b>Hierarchical Parent ID Number</b><br>Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to  | <b>O AN 1/12</b>  |
| Always           | HL03             | 735                 | <b>Hierarchical Level Code</b><br>Code defining the characteristic of a level in a hierarchical structure<br>O Order  | <b>M ID 1/2</b>   |

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**Segment:** **LIN** Item Identification  
**Loop:** HL  
**Level:** Detail – Order  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify basic item identification data  
**Comments:**

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU
- 3 While it is very common for a Purchase Order Number to be sent in the LIN05, the FNG software will not use this element. Only the PO# in PRF01 is used.

**Data Element Summary**

| <u>FNG Usage</u>   | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|--|------------------|---------------------|--|-------------------|
| Always   | LIN02            | 235                 | <b>Product/Service ID Qualifier</b><br>Code identifying the type/source of the descriptive number used in Product/Service ID (234)<br>BP Buyer's Part Number | <b>M ID 2/2</b>   |
| Always   | LIN03            | 234                 | <b>Product/Service ID</b><br>Identifying number for a product or service   | <b>M AN 1/48</b>  |
| See comments   | LIN04            | 235                 | <b>Product/Service ID Qualifier</b><br>Code identifying the type/source of the descriptive number used in Product/Service ID (234)                           | <b>X ID 2/2</b>   |
| See comments   | LIN05            | 234                 | <b>Product/Service ID</b><br>Identifying number for a product or service   | <b>X AN 1/48</b>  |
| LIN06 through LN31 provide for 13 additional pairs of data elements 235 and 234. |                  |                     |  |                   |



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**Segment:** **SN1** Item Detail (Shipment)  
**Loop:** HL  
**Level:** Detail -- Order  
**Usage:** Optional  
**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.  
**Semantic Notes:** 1 SN101 is the ship notice line-item identification.  
**Comments:** 1 SN103 defines the unit of measurement for both SN102 and SN104.

**Data Element Summary**

| <b>FNG Usage</b> | <b>Ref. Des.</b> | <b>Data Element</b> | <b>Name</b>   | <b>Attributes</b> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | SN102            | 382                 | <b>Number of Units Shipped</b><br>Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set  | <b>M R 1/10</b>   |
| Always           | SN103            | 355                 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>This must be the same Unit of Measure sent in the corresponding 830, in the UIT01. | <b>M ID 2/2</b>   |
| Always           | SN104            | 646                 | <b>Quantity Shipped to Date</b><br>Number of units shipped to date, including this shipment   | <b>O R 1/15</b>   |
| Conditional      | SN106            | 355                 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>Use any valid X12 code except mutually defined, "ZZ".                              | <b>X ID 2/2</b>   |



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**Segment:** **PRF** Purchase Order Reference  
**Loop:** HL  
**Level:** Detail -- Order  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To provide reference to a specific purchase order  
**Syntax Notes:**  
**Semantic Notes:** 1 PRF04 is the date assigned by the purchaser to purchase order.  
**Comments:**

**Data Element Summary**

| <b>FNG</b>   | <b>Ref.</b> | <b>Data</b>    | <b>Name</b>   | <b>Attributes</b> |
|--------------|-------------|----------------|---|-------------------|
| <u>Usage</u> | <u>Des.</u> | <u>Element</u> |   |                   |
| Always       | PRF01       | 324            | <b>Purchase Order Number</b>  | M AN 1/22         |
|              |             |                | Identifying number for Purchase Order assigned by the orderer/purchaser |                   |
|              |             |                | Use PO number from releasing document.                                  |                   |

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**Segment:** **REF** Reference Identification  
**Loop:** HL  
**Level:** Detail -- Order  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify identifying information  
**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.  
**Comments:** 1 While it is very common for a Bill of Lading and Packing List to be sent in the REF02 at this level, the FNG software will not process this segment. Please see the 830 introductory comments.

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|------------------|------------------|---------------------|--|-------------------|
| See comments     | REF01            | 128                 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification  | M ID 2/3          |
| See comments     | REF02            | 127                 | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | X AN 1/30         |

**Segment:** **CLD** Load Detail  
**Loop:** HL/CLD  
**Level:** Detail -- Order  
**Usage:** Optional  
**Max Use:** 500  
**Purpose:** To specify the number of material loads shipped  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:** This segment will transmit the total number of material loads shipped for the preceding Order Level LIN.

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | CLD01            | 622                 | <b>Number of Loads</b><br>Number of containers shipped by the supplier  | <b>M N0 1/5</b>   |
| Always           | CLD02            | 382                 | <b>Number of Units Shipped</b><br>Numeric value of units shipped in manufacturer's container for a line item or transaction set<br>Total quantity per container.  | <b>M R 1/10</b>   |
| Always           | CLD03            | 103                 | <b>Packaging Code</b><br>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<br>Any valid X12 code except mutually defined, "ZZ". | <b>O AN 3/5</b>   |

**1Segment:** **REF** **Reference Identification**  
**Loop:** CLD Optional  
**Level:** Detail -- Order  
**Usage:** Mandaory  
**Max Use:** 500  
**Purpose:** To specify identifying information  
**Syntax Notes:** 1 At least one of REF02 or REF03 is required.  
**Semantic Notes:**  
**Comments:** **This segment becomes Mandatory for some FNG facilities**  
**None of our facilities currently use Master Labels the ref LS should**  
**Be the container labels for the parts.**

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | REF01            | 128                 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>Provide the Serial bar code label information at the Order Level.  | M ID 2/3          |
|                  |                  |                     | LT Lot Number   |                   |
|                  |                  |                     | LS Bar-Coded Serial Number  |                   |
| Always           | REF02            | 127                 | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>Indicate the Barcode Serial Number. | X AN 1/30         |
| NOTES:           |                  |                     | REF LS ensure that the "S" is not included as part of the ASN.<br>should be imbedded in the Serial Barcode of the LABEL only.   |                   |

**Segment:** **CTT Transaction Totals**  
**Loop:**  
**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>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|------------------|------------------|---------------------|--|-------------------|
| Always           | CTT01            | 354                 | <b>Number of Line Items</b><br>Total number of line items in the transaction set   | <b>M N0 1/6</b>   |
| Always           | CTT02            | 347                 | <b>Hash Total</b><br>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.<br>Hash total of quantity shipped (SN102). | <b>O R 1/10</b>   |

**Segment:** **SE** Transaction Set Trailer  
**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>FNG</u>             | <u>Ref.</u>         | <u>Data</u>          | <u>Name</u>  | <u>Attributes</u> |
|------------------------|---------------------|----------------------|--|-------------------|
| <u>Usage</u><br>Always | <u>Des.</u><br>SE01 | <u>Element</u><br>96 | <b>Number of Included Segments</b><br>Total number of segments included in a transaction set including ST and SE segments  | <b>M N0 1/10</b>  |
| Always                 | SE02                | 329                  | <b>Transaction Set Control Number</b><br>Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | <b>M AN 4/9</b>   |

**Sample 856:**

**2 Items at Order Level**

ISA~00~                    ~00~                    ~01~VENDDUNS#                    ~01~011298072                    ~020719~0904~U~00401~000000005~0~P~@\*

GS~SH~VENDDUNS#~011298072~20020719~0904~6~X~004010\*

ST~856~0004\*                    X12 Transaction Set = 856 (ASN)

BSN~00~100035~20020719~0901\*                    Status = 00 (Original)  
Document Number = 100035  
Date Created = July 19, 2002  
Time Created = 09:01 AM

DTM~011~20020719~0902~ET\*                    Ship Date = July 19, 2002  
Ship Time = 09:02 AM ET

DTM~017~20020724~0902~ET\*                    Expected Date = July 24, 2022  
Expected Time = 09:02 AM ET

HL~1~~S\*                    Hierarchical ID Number = 1  
Hierarchical Level = Shipment

MEA~PD~G~502~LB\*                    Type of Measurement = Physical Dimensions  
Gross Weight = 502 LB

MEA~PD~N~500~LB\*                    Type of Measurement = Physical Dimensions  
Net Weight = 500 LB

TD1~CTN90~4\*                    Shipping Container = 4 Containers

TD5~B~02~CETR~M\*                    Originating Carrier SCAC Code = CETR  
Method = Motor

TD3~TL~C~123456\*                    Trailer Number = 123456

N1~ST~FLEX\_N\_GATE~1~011298072\*                    Ship To DUNS = 011298072

N1~SU~TEST VENDOR~1~VENDDUNS#\*                    Supplier DUNS = VENDDUNS#





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HL~2~1~O\*

Hierarchical ID Number = 2  
Hierarchical Parent ID Number = 1 (Ship)  
Hierarchical Level = Order

LIN~~BP~TEST MATERIAL 1~VP~B13~~~PO~1628\*

Buyer's Part Number = TEST MATERIAL 1  
Vendor Part Number = B13  
Purchase Order = 1628

SN1~~500~EA~25500\*

Units Shipped = 500 EA  
Number of Units Shipped to Date = 25,500

PRF~1628~0000\*

Purchase Order = 1628

REF~PK~100035\*

Packing Slip = 100035

REF~BM~100035\*

Bill of Materials = 100035

CLD~2~250~CTN90\*

Number of Loads = 2  
Total Quantity per Container = 250  
Packaging Code = CTN90

HL~3~1~O\*

Hierarchical ID Number = 3  
Hierarchical Parent ID Number = 1 (Ship)  
Hierarchical Level = Order

LIN~~BP~TEST MATERIAL 2~VP~B159~~~PO~1629\*

Buyer's Part Number = TEST MATERIAL 2  
Vendor Part Number = B159  
Order = 1629

Purchase

SN1~~200~EA~2000\*

Units Shipped = 200 EA  
Number of Units Shipped to Date = 2000

PRF~1629~0000\*

Purchase Order = 1629

REF~PK~100035\*

Packing Slip = 100035



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Bill Of Materials = 100035

REF~BM~100035\*

CLD~1~100~CTN90\*

Number of Loads = 1  
Total Quantity per Container = 100  
Packaging Code = CTN90

REF~LS~4100035\*

Carton Serial # = 4100035

REF~LT~2013310\*

Lot # = 2013310

CLD~1~150~CTN90\*

Number of Loads = 1  
Total Quantity per Container = 150  
Packaging Code = CTN90

REF~LS~4100036\*

Carton Serial # = 4100036

REF~LT~2013311\*

Lot # = 2013311

CTT~3~700\*

Number of Hierarchical Levels = 3  
Hash Total of Quantity Shipped (SN102) = 700

SE~27~0004\*

Total Number of Segments = 27  
Transaction Set Control Number = 0004

GE~1~6\*

IEA~1~000000005\*