

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.

Notes:

856 Business process narrative - Deere as the customer

The transaction is used by the supplier to send shipment content information to the Deere customer. The transaction must be sent as soon as the material leaves the supplier location. The purpose is to communicate the part numbers, purchase order and associated quantities shipped to the customer location. The information is used by the customer as the basis for receiving and may be used as the basis for payment if ERS (Evaluated Receipt Settlements) process is used instead of invoicing. Timing and accuracy of the data is crucial to ensuring an improved process. If the ship notice data has not arrived prior to the physical material, the material flow in receiving is interrupted. If the data does not match the physical contents the inventory updates and payment processes are error-ridden. In the ERS environment, the packing list number or SID number is used for the invoice number in ERS.

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
3	010	ST	Transaction Set Header	M	1		
4	020	BSN	Beginning Segment for Ship Notice	M	1		
5	040	DTM	Date/Time Reference	O	10		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HLS				200000
6	010	HL	Hierarchical Level - Shipment	M	1		c1
7	080	MEA	Measurements	O	40		
8	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
9	130	TD3	Carrier Details (Equipment)	O	12		
10	150	REF	Reference Identification	O	>1		
			LOOP ID - N1				200
11	220	N1	Name	O	1		
12	260	REF	Reference Identification	O	12		
			LOOP ID - SAC				>1
13	320	SAC	Service, Promotion, Allowance, or Charge Information	O	1		

			LOOP ID - HLP	200000	
14	010	HL	Hierarchical Level - Pack (Pallet Master or Mixed)	M	1
15	080	MEA	Measurements	O	40
16	150	REF	Reference Identification	O	>1
			LOOP ID - CLD	200	
17	170	CLD	Load Detail	O	1
18	180	REF	Reference Identification	O	200
			LOOP ID - HLO	200000	
19	010	HL	Hierarchical Level - Order	M	1
20	050	PRF	Purchase Order Reference	O	1
			LOOP ID - HLI	200000	
21	010	HL	Hierarchical Level - Item	M	1
22	020	LIN	Item Identification	O	1
24	030	SN1	Item Detail (Shipment)	O	1
25	040	SLN	Subline Item Detail	O	1000
27	080	MEA	Measurements	O	40
28	150	REF	Reference Identification	O	>1
			LOOP ID - CLD	200	
29	170	CLD	Load Detail	O	1
30	180	REF	Reference Identification	O	200

Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
31	010	CTT	Transaction Totals	O	1		n1
32	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.

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:
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:
Notes: The ST segment and its contents is controlled by the translator.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143		Transaction Set Identifier Code Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	M ID 3/3
M	ST02	329		Transaction Set Control Number 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

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.
Semantic Notes: 1 BSN03 is the date the shipment transaction set is created.
2 BSN04 is the time the shipment transaction set is created.
3 BSN06 is limited to shipment related codes.
Comments: 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.
Notes: The segment is used to communicate the shipment ID number (SID). This shipment ID number represents the total contents of the materials from one destination to another destination. Often the Bill of Lading number is used, but it can be any number which is not repeated for 13 months by the supplier. The transaction purpose code associated indicates an original shipment. If a replacement ship notice is sent, then Deere requires the entire contents of the shipment data re-transmitted.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BSN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 01 Cancellation 05 Replace	M ID 2/2
M	BSN02	396	Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment John Deere requires a unique shipment ID for 13 months. John Deere uses only the 13 left most characters for the ship ID. If packlist references are not sent in a reference segment, the SID will be used as the invoice number for ERS.	M AN 2/30
M	BSN03	373	Date Date expressed as CCYYMMDD	M DT 8/8
M	BSN04	337	Time 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) Use format of HHMMSSDD	M TM 4/8
	BSN05	1005	Hierarchical Structure Code Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set 0003 Shipment, Packaging, Order, Item	O ID 4/4

Segment: **DTM** Date/Time Reference
Position: 040
Loop:
Level: Heading
Usage: Optional
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.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Deere requires at least one DTM segment to communicate the time of shipment or the estimated time of arrival at the ship to location.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	DTM01	374 Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		011 Shipped	
		017 Estimated Delivery	
	DTM02	373 Date	X DT 8/8
		Date expressed as CCYYMMDD	
		John Deere requires.	
	DTM03	337 Time	X TM 4/8
		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)	
		John Deere requires.	
	DTM04	623 Time Code	O ID 2/2
		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	

Segment: **HL Hierarchical Level - Shipment**
Position: 010
Loop: HLS 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:
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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: John Deere will use Shipment/Package/Order/Item hierarchical structure, and BSN 05 should reflect this ASN structure.

The first 'Hierarchical Level - Shipment' is number 1, and all segments until the next HL, segment relate to the header information; all information applies to the entire content of the shipment.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	HL01	628	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
M	HL03	735	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure S Shipment	M ID 1/2

Segment: **MEA** Measurements

Position: 080

Loop: HLS Mandatory

Level: Detail

Usage: Optional

Max Use: 40

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Syntax Notes: 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.

3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes: This is an optional segment at the shipment level containing total weight of the total shipment quantity.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies PD Physical Dimensions	O ID 2/2
MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies G Gross Weight N Actual Net Weight	O ID 1/3
MEA03	739	Measurement Value The value of the measurement	X R 1/20
MEA04	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X
M	C00101	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken 01 Actual Pounds Only used by Worldwide Logistics 24 Theoretical Pounds Only used by Worldwide Logistics 50 Actual Kilograms Only used by Worldwide Logistics 53 Theoretical Kilograms Only used by Worldwide Logistics KG Kilogram LB Pound	M ID 2/2

Segment:	TD5 Carrier Details (Routing Sequence/Transit Time)
Position:	120
Loop:	HLS Mandatory
Level:	Detail
Usage:	Optional
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:	<ol style="list-style-type: none"> 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.
Semantic Notes:	1 TD515 is the country where the service is to be performed.
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.
Notes:	John Deere uses segment at the shipment level only. The primary information Deere requires from this segment is the code for the transportation company moving the material.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
TD501	133	Routing Sequence Code	O ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement	
		B Origin/Delivery Carrier (Any Mode)	
TD502	66	Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		2 Standard Carrier Alpha Code (SCAC)	
TD503	67	Identification Code	X AN 2/80
		Code identifying a party or other code	
		SCAC code of carrier.	
TD504	91	Transportation Method/Type Code	X ID 1/2
		Code specifying the method or type of transportation for the shipment	
		(Example: M = Motor)	
TD505	387	Routing	X AN 1/35
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	
TD507	309	Location Qualifier	O ID 1/2
		Code identifying type of location	
		OR Origin (Shipping Point)	
		PP Pool Point	
TD508	310	Location Identifier	X AN 1/30
		Code which identifies a specific location	

Segment: **TD3** Carrier Details (Equipment)
Position: 130
Loop: HLS Mandatory
Level: Detail
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.
- 3 If TD304 is present, then TD305 is required.
- 4 If either TD305 or TD306 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

John Deere uses segment at the shipment level only.
The trailer number (or other ID number of the carrier) is provided here within the equipment number field. If trailer number is not available, do not use the TD3 segment.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
TD301	40	Equipment Description Code Code identifying type of equipment used for shipment (Example: TL = Trailer)	X ID 2/2
TD302	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number John Deere expects the SCAC code of the Carrier.	O AN 1/4
TD303	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	X AN 1/10

Segment: **REF** Reference Identification
Position: 150
Loop: HLS 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: John Deere requires the "2I" at the Shipment level for the shipment's logistic provider tracking number.

Other information related to the shipment may also be provided in additional Shipment level REF segments.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		2I Tracking Number	
		AW Air Waybill Number	
		BM Bill of Lading Number	
			This number must not repeat within 13 months.
		FR Freight Bill Number	
		IK Invoice Number	
			Manufacturer's invoice number for vehicle/component
			Required by Deere Mexican units at header-level or item-level location depending on shipment makeup for invoice matching.
		OC Ocean Container Number	
		PK Packing List Number	
			This number must not repeat within 13 months.
		SN Seal Number	
	REF02	127 Reference Identification	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **N1** Name
Position: 220
Loop: N1 Optional
Level: Detail
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.
 2 N105 and N106 further define the type of entity in N101.
Notes: John Deere uses segment at the shipment level only to communicate business partner or location information.
 There will be an associated DUNS number or another Deere unique number to cross reference entity information.

Data Element Summary

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

Segment: **REF** Reference Identification
Position: 260
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 12
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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: John Deere uses this optional segment at the shipment level for N1 loop. This REF segment is used to communicate the dock code "DK" if the ordering transaction included corresponding dock information.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification DK Dock Number	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: SAC Service, Promotion, Allowance, or Charge Information
Position: 320
Loop: SAC Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
 - 2 If either SAC03 or SAC04 is present, then the other is required.
 - 3 If either SAC06 or SAC07 is present, then the other is required.
 - 4 If either SAC09 or SAC10 is present, then the other is required.
 - 5 If SAC11 is present, then SAC10 is required.
 - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
 - 7 If SAC14 is present, then SAC13 is required.
 - 8 If SAC16 is present, then SAC15 is required.

- Semantic Notes:**
- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
 - 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
 - 3 SAC08 is the allowance or charge rate per unit.
 - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
 - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
 - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
 - 7 SAC16 is used to identify the language being used in SAC15.

- Comments:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
 - 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: John Deere uses this optional segment at the shipment level only for special charges related to the shipment.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	SAC01	248 Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for the service specified	
		C Charge	
	SAC02	1300 Service, Promotion, Allowance, or Charge Code	X ID 4/4
		Code identifying the service, promotion, allowance, or charge	
		C040 Delivery	
		D240 Freight	
		D500 Handling	
		G760 Set-up	
		H550 Surcharge	
		I260 Transportation Direct Billing	
		I280 Transportation Vendor Provided	
	SAC05	610 Amount	O N2 1/15
		Monetary amount	

Segment: **HL Hierarchical Level - Pack (Pallet Master or Mixed)**
Position: 010
Loop: HLP 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:

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.
 - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: If BSN 05 indicates Shipment/Package/Order/Item hierarchical structure, then the first 'Hierarchical Level - Pallet/Master Package' occurrence will start with 2 and all segments until the next Package level HL relate to the outer-most container/carton or pallet.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M		628	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
	HL02	734	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
M	HL03	735	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure P Pack	M ID 1/2

Segment: **MEA** Measurements
Position: 080
Loop: HLP Mandatory
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes:

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes: This is an optional segment containing total weight of the shipped quantity for the container/carton.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies PD Physical Dimensions	O ID 2/2
MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies G Gross Weight N Actual Net Weight WT Weight	O ID 1/3
MEA03	739	Measurement Value The value of the measurement	X R 1/20
MEA04	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X
M	C00101	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken 01 Actual Pounds Only used by Worldwide Logistics 24 Theoretical Pounds Only used by Worldwide Logistics 50 Actual Kilograms Only used by Worldwide Logistics 53 Theoretical Kilograms Only used by Worldwide Logistics KG Kilogram LB Pound	M ID 2/2

Segment: **REF** Reference Identification
Position: 150
Loop: HLP 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: This optional segment at the Package level may be included to provide additional information depending on the makeup of the shipment.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M REF01	128	Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		IK Invoice Number	
		Manufacturer's invoice number for vehicle/component	
		Required by Deere Mexican units at header-level or item-level location depending on shipment makeup for invoice matching.	
		PK Packing List Number	
		This number must not repeat within 13 months.	
REF02	127	Reference Identification	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
		The packing list reference, when provided, will be used as the invoice number ERS.	

Segment: **CLD** Load Detail
Position: 170
Loop: CLD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the number of material loads shipped
Syntax Notes: 1 If CLD05 is present, then CLD04 is required.
Semantic Notes: 1 CLD05 is used to dimension the value given in CLD04.
Comments: 1 The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.

Notes: A Package level CLD segment is required when identifying a container/carton of shippable items, an outermost container/carton, or pallet with sub containers/cartons.

The Package level CLD number of loads must be 1 and the quantity equal either the number of shippable items or number of sub containers/cartons in the case of outer packaging or pallet.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	CLD01	622	Number of Loads Number of customer-defined loads shipped by the supplier	M N0 1/5
M	CLD02	382	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M R 1/10

Segment: **REF** Reference Identification

Position: 180

Loop: CLD Optional

Level: Detail

Usage: Optional

Max Use: 200

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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes: John Deere uses a Packaging level REF to provide additional references for each container/carton.

The "LA" qualifier identifies the Shipping Label (License plate) for the container/carton. At the Pack level this "LA" refers to the outermost License Plate Number for the Master or Mix container

The "98" qualifier replaces the TD101 Packaging Code. If the containers loaded have an associated cost within Deere unit systems, the containers are paid with the material payment when the ERS process is in effect. The external packaging value is required when the shipment is a mix or master pallet/pack.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			98 Container/Packaging Specification Number	
			A numeric or alphanumeric identification assigned to a unique packaging/container configuration	
			Used to communicate Deere packaging code	
			LA Shipping Label Serial Number	
	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **HL** Hierarchical Level - Order
Position: 010
Loop: HLO 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:

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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes:

If BSN 05 indicates Shipment/Package/Order/Item hierarchical structure, then the first 'Hierarchical Level - Order' occurrence will start with 3 and all segments until the next Order level HL identifies an order.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
	HL02	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		O Order	

Segment: **PRF** Purchase Order Reference
Position: 050
Loop: HLO Mandatory
Level: Detail
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:
Notes: This segment contains the Deere purchase order number for the material being shipped. John Deere requires this segment at the HL order level.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M		324	Purchase Order Number	M AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser	

Segment: **HL** Hierarchical Level - Item
Position: 010
Loop: HLI 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:

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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes:

If BSN 05 indicates Shipment/Package/Order/Item hierarchical structure, then the first 'Hierarchical Level - Item' occurrence will start with 4 and all segments until the next HL relate to an item.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
	HL02	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		I Item	

Segment:	LIN Item Identification
Position:	020
Loop:	HLI Mandatory
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required. 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required. 14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1 LIN01 is the line item identification
Comments:	<ol style="list-style-type: none"> 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.
Notes:	<p>This segment contains the Deere material number being shipped. John Deere requires this segment at the item level.</p> <p>The Purchase Order Line Number is required. The value can be retrieved from the 830 LIN01, the 850 PO101 or the 862 LIN segment in one of the value/pair segments with a "PL" qualifier. The Purchase Order Line Number is sent in one of the 856 LIN value/pair segments with a "PL" qualifier</p> <p>Paired elements starting at LIN02/LIN03 can be sent in any order. The qualifier identifies the business relevance of the value</p>

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
LIN01	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
M	LIN02	Product/Service ID Qualifier	M ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		BP Buyer's Part Number	
		PL Purchaser's Order Line Number	
		CH Country of Origin Code	
		SN Serial Number	
M	LIN03	Product/Service ID	M AN 1/48
		Identifying number for a product or service	
	LIN04	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
	LIN05	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
	LIN06	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	

LIN07

234

Product/Service ID

X AN 1/48

Identifying number for a product or service

Segment: **SN1** Item Detail (Shipment)
Position: 030
Loop: HLI Mandatory
Level: Detail
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.
Notes: John Deere requires this segment at the item level.
 The total shipped quantity is specified, along with the unit of measure. The segment is required of each part number (LIN segment). If this quantity does not agree with the total of all load quantities below, an EDI 824 error message is generated to the supplier and the lesser of the two quantities is assumed to be correct.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SN102	382	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M R 1/10
M	SN103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken (Example: PC = Pieces)	M ID 2/2

Segment:	SLN Subline Item Detail
Position:	040
Loop:	HLI Mandatory
Level:	Detail
Usage:	Optional
Max Use:	1000
Purpose:	To specify product subline detail item data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either SLN04 or SLN05 is present, then the other is required. 2 If SLN07 is present, then SLN06 is required. 3 If SLN08 is present, then SLN06 is required. 4 If either SLN09 or SLN10 is present, then the other is required. 5 If either SLN11 or SLN12 is present, then the other is required. 6 If either SLN13 or SLN14 is present, then the other is required. 7 If either SLN15 or SLN16 is present, then the other is required. 8 If either SLN17 or SLN18 is present, then the other is required. 9 If either SLN19 or SLN20 is present, then the other is required. 10 If either SLN21 or SLN22 is present, then the other is required. 11 If either SLN23 or SLN24 is present, then the other is required. 12 If either SLN25 or SLN26 is present, then the other is required. 13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 SLN01 is the identifying number for the subline item. 2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials. 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item. 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:	<ol style="list-style-type: none"> 1 See the Data Element Dictionary for a complete list of IDs. 2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1. 3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes:	Deere uses this segment for communicating configurable options on a base whole good machines identified at the line-item. Quantities, part number and descriptions should always be sent. Option pricing may be included in this segment, but the item price should include these costs.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	SLN01	350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	M AN 1/20
	SLN02	350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
M	SLN03	662 Relationship Code Code indicating the relationship between entities A Add	M ID 1/1
	SLN04	380 Quantity Numeric value of quantity	X R 1/15
	SLN05	C001 Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X
M	C00101	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
	SLN09	235 Product/Service ID Qualifier	X ID 2/2

		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		BP	Buyer's Part Number	
		PD	Part Number Description	
SLN10	234	Product/Service ID		X AN 1/48
		Identifying number for a product or service		
SLN11	235	Product/Service ID Qualifier		X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		BP	Buyer's Part Number	
		PD	Part Number Description	
SLN12	234	Product/Service ID		X AN 1/48
		Identifying number for a product or service		

Segment: **MEA** Measurements
Position: 080
Loop: HLI Mandatory
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes:

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes: This is an optional segment containing total weight of the shipped quantity for the line item.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies PD Physical Dimensions	O ID 2/2
MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies G Gross Weight N Actual Net Weight WT Weight	O ID 1/3
MEA03	739	Measurement Value The value of the measurement	X R 1/20
MEA04	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X
M	C00101	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken 01 Actual Pounds Only used by Worldwide Logistics 24 Theoretical Pounds Only used by Worldwide Logistics 50 Actual Kilograms Only used by Worldwide Logistics 53 Theoretical Kilograms Only used by Worldwide Logistics KG Kilogram LB Pound	M ID 2/2

Segment: **REF** Reference Identification
Position: 150
Loop: HLI 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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: This optional segment at the item level may be included to provide additional information/references for the identified material.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	REF01	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		DP Department Number	
		IK Invoice Number	
		Manufacturer's invoice number for vehicle/component	
		Required by Deere Mexican units at header-level or item-level location depending on shipment makeup for invoice matching.	
		KB Beginning Kanban Serial Number	
		LF Assembly Line Feed Location	
		PK Packing List Number	
		This number must not repeat within 13 months.	
		SE Serial Number	
		Used for whole good or component serial numbers.	
	REF02	127 Reference Identification	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
		The packing list reference, when provided, will be used as the invoice number ERS.	

Segment: **CLD** Load Detail
Position: 170
Loop: CLD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the number of material loads shipped
Syntax Notes: 1 If CLD05 is present, then CLD04 is required.
Semantic Notes: 1 CLD05 is used to dimension the value given in CLD04.
Comments: 1 The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.
Notes: Each containers/cartons should be referenced in a CLD segment with the sum of those CLD quantities equaling the SN1 quantity.
 Use one CLD loop for each license plate number

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	CLD01	622	Number of Loads	M N0 1/5
			Number of customer-defined loads shipped by the supplier	
M	CLD02	382	Number of Units Shipped	M R 1/10
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	

Segment: **REF** Reference Identification

Position: 180

Loop: CLD Optional

Level: Detail

Usage: Optional

Max Use: 200

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.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes:

This segment may be included to provide additional detail information.

The "KB" qualifier indicates the Kanban serial number for the load. If part is on Controlled Delivery (862 Shipping Schedule), a 'KB' (trigger number) qualifier in the REF segment is required for each load or container and cannot be duplicated. If used at this level the quantity in the CLD equals trigger quantity.

The "98" qualifier replaces the CLD03 Packaging Code. The internal packaging value is required for each CLD.

The "LA" qualifier identifies the Shipping Label (License plate) for the container/carton and is required for each CLD.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			97 Package Number	
			A serial number indicating unit shipped	
			98 Packaging Code	
			CR Customer Reference Number	
			IK Invoice Number	
			Manufacturer's invoice number for vehicle/component	
			Required by Deere Mexican units at header-level or item-level location depending on shipment makeup for invoice matching.	
			KB Beginning Kanban Serial Number	
			LA Shipping Label (License Plate)	
			LT Lot Number	
			PC Production Code	
			RS Returnable Container Serial Number	
	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **CTT** Transaction Totals
Position: 010
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.
Notes: John Deere requires CTT segment, the count all hierarchical levels used.

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items M N0 1/6
			Total number of line items in the transaction set Number of line items (CTT01) is the accumulation of the number of HL segments.
	CTT02	347	Hash Total 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. Hash Total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

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:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

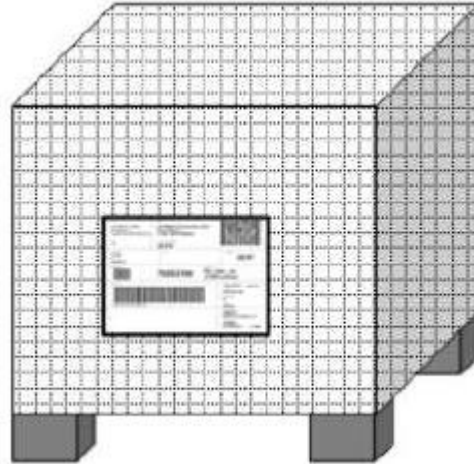
Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329	Transaction Set Control Number 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

Single Order Example:

1 pallet, 1 box, 1 part, 1 single license plate number

ISA*00* *00* *ZZ*SUPPLIERID *01*DEEREID *190314*1025*U*00401*00000021*0*P*>
GS*SH*SUPPLIER ID*DEEREID*20190314*1025*21*X*004010
ST*856*0021
BSN*00*3660239*20190308*13450196*0003
DTM*011*20190306*13380000
HL*1**S
MEA*PD*G*22*KG
TD5*B*2*IDENTIFICATIONCODE
TD3*TL*SCACCODE*XXXXXXXXXX
REF*2I*JDGV1234567
N1*ST*RYDER INTEGRATED LOGISTICS*1*964475974
HL*2*1*P
CLD*1*1
HL*3*2*O
PRF*5500000001
HL*4*3*I
LIN**BP*Part123*PL*0010
SN1**5*PC
REF*DP*LSC
REF*PK*30601
CLD*1*5
REF*98*CB101008
REF*KB*0000000001
REF*LA*DESUPPLIERID000A0640
REF*RS*PD6776
CTT*1
SE*25*0021
GE*1*21
IEA*1*000000021

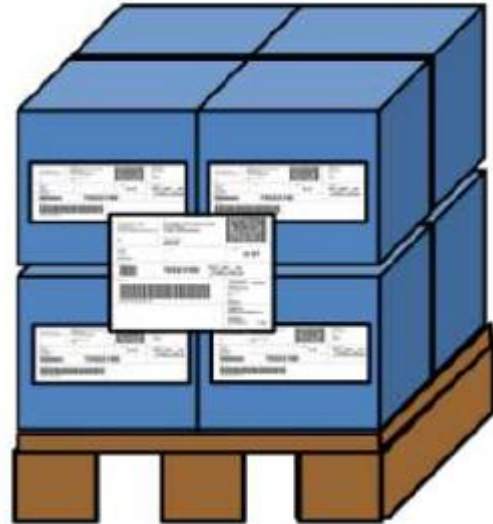


Master Pallet/Pack Example:

1 pallet, 3 boxes, 1 part number, 1 master license plate number, 3 single license plate numbers

(Illustration is for demonstration purposes only and may not match EDI sample data exactly)

```
ISA*00*          *00*          *ZZ*SUPPLIERID    *01*DEEREID      *190314*1025*U*00401*00000021*0*P*>
GS*SH*SUPPLIER ID*DEEREID*20190314*1025*21*X*004010
ST*856*0021
BSN*00*3660239*20190308*13450196*0003
DTM*011*20190306*13380000
HL*1**S
REF*21*JGV1234567
N1*ST*RYDER INTEGRATED LOGISTICS*1*964475974
HL*2*1*P
CLD*1*3
REF*98*PALLET1
REF*LA* DESUPPLIERID000A0641
HL*3*2*O
PRF*5500000002
HL*4*3*I
LIN**BP*Part345*PL*0020
SN1**30*PC
REF*DP*LSC
REF*PK*30601
CLD*1*10
REF*98*BOX25
REF*RS*RC123
REF*LA* DESUPPLIERID000A0642
CLD*1*10
REF*98*BOX25
REF*LA* DESUPPLIERID000A0643
CLD*1*10
REF*98*BOX25
REF*LA* DESUPPLIERID000A0644
CTT*1
SE*29*0021
GE*1*21
IEA*1*00000021
```



Mixed Pallet/Pack Example:

1 pallet, 2 boxes, 2 part number, 1 mixed license plate number, 2 single license plate numbers

(Illustration is for demonstration purposes only and may not match EDI sample data exactly)

```
ISA*00*          *00*          *ZZ*SUPPLIERID    *01*DEEREID      *190314*1025*U*00401*00000021*0*P*>
GS*SH*SUPPLIER ID*DEEREID*20190314*1025*21*X*004010
ST*856*0021
BSN*00*3660239*20190308*13450196*0003
DTM*011*20190306*13380000
HL*1**S
REF*21*JGV1234567
N1*ST*RYDER INTEGRATED LOGISTICS*1*964475974
HL*2*1*P
CLD*1*2
REF*98*PALLET3
REF*LA* DESUPPLIERID000A0645
HL*3*2*O
PRF*5500000003
HL*4*3*I
LIN**BP*Part678*PL*00010
SN1**15*PC
REF*DP*LSC
REF*PK*30601
CLD*1*15
REF*98*BOX90
REF*LA* DESUPPLIERID000A0646
HL*5*2*O
PRF*5500000004
HL*6*5*I
LIN**BP*Part901*PL*00020
SN1**10*PC
REF*DP*LSC
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