

945 Warehouse Shipping Advice

Functional Group ID=**SW**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Warehouse Shipping Advice Transaction Set (945) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by the warehouse to advise the depositor that shipment was made. It is used to reconcile order quantities with shipment quantities.

Notes:

945 Business process narrative - Deere as the customer

The transaction is used by the 3PL to send shipment content information to the Deere depositor. The transaction must be sent as soon as the material leaves the 3PL location. The purpose is to communicate the part numbers, purchase order and associated quantities shipped to the depositor location. The information is used by the depositor as the basis for receiving, and may be used as the basis for supplier 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 shipment 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
2	010	ST	Transaction Set Header	M	1		
3	020	W06	Warehouse Shipment Identification	M	1		
LOOP ID - 0100						10	
4	040	N1	Name	M	1		
5	090	N9	Reference Identification	O	10		
6	110	G62	Date/Time	O	5		
7	130	W27	Carrier Detail	O	1		
8	155	G72	Allowance or Charge	O	5		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - 0300						>1	
9	005	LX	Assigned Number	O	1		
LOOP ID - 0310						>1	
10	020	W12	Warehouse Item Detail	O	1		
12	040	N9	Reference Identification	O	200		
13	055	QTY	Quantity	O	10		

Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
14	010	W03	Total Shipment Information	O	1		
15	020	SE	Transaction Set Trailer	M	1		

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 it's contents is controlled by the translator.

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143 Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	
M	ST02	329 Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Segment: **W06** Warehouse Shipment Identification
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To provide identifying numbers, dates, and other basic data for this transaction set
Syntax Notes: 1 If either W0607 or W0608 is present, then the other is required.
Semantic Notes: 1 W0603 is the actual date on which shipment was made.
Comments:
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 action code associated indicates an original shipment. If a replacement shipment is sent, then Deere requires the entire contents of the shipment data re-transmitted.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	W0601	514 Reporting Code	M ID 1/1
		Code specifying the basis used when reporting shipment information	
		F Full Detail	
	W0602	285 Depositor Order Number	O AN 1/22
		Identifying number for warehouse shipping order assigned by the depositor	
	W0603	373 Date	O DT 8/8
		Date expressed as CCYYMMDD	
	W0604	145 Shipment Identification Number	O AN 1/30
		Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)	
		John Deere requires a unique shipment ID for 13 months. John Deere uses only the 13 left most characters for the shipment ID. If packlist references are not sent in a reference segment, the SID will be used as the invoice number for ERS.	
		This field will be ignored in the CCE process, since all relevant values will be pulled from the N9 segment.	
	W0611	640 Transaction Type Code	O ID 2/2
		Code specifying the type of transaction	
		60 Material In Transit	
	W0612	306 Action Code	O ID 1/2
		Code indicating type of action	
		C Cancelled	
		DK Dispose	
		IT Initiate	
		RX Replace	

Segment: **N1** Name
Position: 040
Loop: 0100 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
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 this segment at the header level only and requires that at least one N1 segment be sent for the 'SU' (Supplier/Manufacturer) location to identify the supplier of the material being shipped.
 There will be an associated DUNS number or another Deere unique number to cross reference entity information.
 The N1-N4 segments are not necessary for the CCE process. Storage location will be determined in SAP from the agreement.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		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: **N9 Reference Identification**
Position: 090
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Comments:
Notes: This optional segment, when used at the header level, may be included to provide additional information related to other shipment information.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		BM Bill of Lading Number	
		FR Freight Bill Number	
		PK Packing List Number	
N902	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: **G62** Date/Time
Position: 110
Loop:
Level: Heading
Usage: Optional
Max Use: 5
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of G6201 or G6203 is required.
- 2 If either G6201 or G6202 is present, then the other is required.
- 3 If either G6203 or G6204 is present, then the other is required.

Semantic Notes:
Comments:

Notes: Deere requires at least one G62 segment to communicate the time of shipment or the estimated time of arrival at the ship to location.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Date Qualifier</u>	<u>ID</u>
G6201	432	Date Qualifier	X ID 2/2
		Code specifying type of date	
		11 Shipped on This Date	
		17 Estimated Delivery Date	
G6202	373	Date	X DT 8/8
		Date expressed as CCYYMMDD	
		John Deere requires.	
G6203	176	Time Qualifier	X ID 1/2
		Code specifying the reported time	
		W Effective Time	
G6204	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)	
G6205	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 Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **W27** Carrier Detail
Position: 130
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify details of the transportation equipment and carrier routing details
Syntax Notes: 1 At least one of W2702 or W2703 is required.
Semantic Notes: 1 W2702 is required when W2701 equals "B", "E", "H", "I", "K", "L", "M", "P" or "T".
 2 W2706 is required when W2701 equals "G" or "R".
Comments: 1 Shipment/Order Status Code is used at the total-invoice level only when differences cannot be provided at the line-item level or when the entire order has been shipped complete.
Notes: The primary information Deere requires from this segment is the code for the transportation company moving the material.
 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 W2707 element.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	W2701	91 Transportation Method/Type Code Code specifying the method or type of transportation for the shipment M Motor (Common Carrier)	M ID 1/2
	W2702	140 Standard Carrier Alpha Code Standard Carrier Alpha Code	X ID 2/4
	W2705	40 Equipment Description Code Code identifying type of equipment used for shipment TL Trailer (not otherwise specified)	O ID 2/2
	W2707	207 Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	O AN 1/10

Segment: **G72 Allowance or Charge**
Position: 155
Loop:
Level: Heading
Usage: Optional
Max Use: 5
Purpose: To specify allowances, charges, or services
Syntax Notes:

- 1 At least one of G7203 G7205 G7208 or G7209 is required.
- 2 Only one of G7205 G7208 or G7209 may be present.
- 3 If either G7206 or G7207 is present, then the other is required.
- 4 If either G7209 or G7210 is present, then the other is required.
- 5 If G7211 is present, then G7203 is required.

Semantic Notes:

- 1 G7209 is the allowance or charge percent.

Comments:

- 1 The G73 segment is required when G7201 contains code "499" or "999"; however, the use of these codes is discouraged.

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

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	G7201	340	Allowance or Charge Code	M ID 1/3
			Code identifying the type of allowance or charge	
			15 Labor	
			503 Special Handling	
			504 Freight	
			514 Surcharge	
			516 Delivery Charge	
M	G7202	331	Allowance or Charge Method of Handling Code	M ID 2/2
			Code indicating method of handling for an allowance or charge	
			06 Charge to be Paid by Customer	
	G7208	360	Allowance or Charge Total Amount	X N2 1/15
			Total dollar amount for the allowance or charge	

Segment: **LX** Assigned Number
Position: 005
Loop: 0300 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To reference a line number in a transaction set
Syntax Notes:
Semantic Notes:
Comments:
Notes: John Deere requires one occurrence of the LX segment with all shipped items described in repeated in W12 segments.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Des.</u> LX01	<u>Element</u> 554	<u>Assigned Number</u> Number assigned for differentiation within a transaction set	M N0 1/6

Segment: **W12** Warehouse Item Detail
Position: 020
Loop: 0310 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To designate those line items that were shipped
Syntax Notes:

- 1 At least one of W1206 or W1207 is required.
- 2 If either W1207 or W1208 is present, then the other is required.
- 3 If any of W1210 W1211 or W1212 is present, then all are required.
- 4 If any of W1213 W1214 or W1215 is present, then all are required.
- 5 If either W1217 or W1218 is present, then the other is required.
- 6 If either W1221 or W1222 is present, then the other is required.

Semantic Notes:

- 1 Whenever W1201 contains "IS", W1216, W1217, and W1218 refer to the original item ordered.

Comments:

Notes: This segment contains the Deere material number being shipped, which is required. The total shipped quantity is specified, along with the unit of measure. If part/PO are not valid, an EDI 824 error message may be generated to the 3PL.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	W1201	368 Shipment/Order Status Code	M ID 2/2
		Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction SH Shipped (Date)	
	W1203	382 Number of Units Shipped	O R 1/10
		Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
	W1205	355 Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken (Example: PC = Pieces) Refer to 004010 Data Element Dictionary for acceptable code values.	
	W1207	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	
	W1208	234 Product/Service ID	X AN 1/48
		Identifying number for a product or service	
	W1217	235 Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234) CR Contract Number PL Purchaser's Order Line Number RC Returnable Container Number	
	W1218	234 Product/Service ID	X AN 1/48
		Identifying number for a product or service	
	W1221	235 Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234) CR Contract Number PL Purchaser's Order Line Number	

W1222	234	RC Product/Service ID Identifying number for a product or service	Returnable Container Number	X	AN 1/48
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Segment: **N9 Reference Identification**
Position: 040
Loop: 0310 Optional
Level: Detail
Usage: Optional
Max Use: 200
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Comments:

Notes: This optional segment at the item level may be included to provide additional information related to other shipment information. If the shipment is in response to a trigger release, the trigger number is returned in this segment with a qualifier of "KB" if the quantity in the W12 segment is equal to the trigger quantity.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		DO Delivery Order Number	
		E5 Claimant's Claim Number	
		Unique number assigned to the claim by the claimant	
		KB Beginning Kanban Serial Number	
		PK Packing List Number	
		SE Serial Number	
	N902	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: QTY Quantity
Position: 055
Loop: 0310 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify quantity information
Syntax Notes: 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	QTY01	673	Quantity Qualifier Code specifying the type of quantity QS Quantity Per Skid	M ID 2/2
	QTY02	380	Quantity Numeric value of quantity	X R 1/15
	QTY03	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	O
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 PF Pallet (Lift)	M ID 2/2
	C00103	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10

Segment: **W03** Total Shipment Information
Position: 010
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To provide totals relating to the shipment
Syntax Notes:

- 1 If W0302 is present, then W0303 is required.
- 2 If either W0304 or W0305 is present, then the other is required.
- 3 If either W0306 or W0307 is present, then the other is required.

Semantic Notes:

Comments:

Notes: John Deere requires W03 segment, the summation of quantity shipped from W12 is used.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	W0301	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: **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