



# Shipment and Billing Notice

## 004010 X12

Functional Group=**BS**

**Heading:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
020	BHT	Beginning of Hierarchical Transaction	M	1		N1/020	Must use

**Detail:**

<u>LOOP ID - HL</u>	<u>SHIPMENT</u>				<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
					<b>≥1</b>	<b>N1/030L</b>	
030	HL	Hierarchical Level	M	1		N1/030	Must use
040	G05	Total Shipment Information	O	1		N1/040	Used
100	DTM	Date/Time Reference	O	5			Used
110	N9	Reference Identification	O	20			Used
120	PER	Administrative Communications Contact	O	5			Used
<u>LOOP ID - HL/N1</u>					<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
					<b>10</b>		
140	N1	Name	O	1			Used
<u>LOOP ID - HL</u>	<u>ORDER</u>				<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
					<b>1</b>	<b>N1/180L</b>	
030	HL	Hierarchical Level	M	1		N1/030	Must use
180	TDS	Total Monetary Value Summary	O	1		N1/180	Used
<u>LOOP ID - HL</u>	<u>TARE</u>				<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
					<b>1</b>	<b>N1/300L</b>	
030	HL	Hierarchical Level	M	1		N1/030	Must use
300	PAL	Pallet Information	O	1		N1/300	Used
310	MAN	Marks and Numbers	O	10			Used
<u>LOOP ID - HL</u>	<u>ITEM</u>				<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
					<b>1</b>	<b>N1/370L</b>	
030	HL	Hierarchical Level	M	1		N1/030	Must use
370	IT1	Baseline Item Data (Invoice)	O	1		N1/370	Used
390	PO4	Item Physical Details	O	1			Used
450	PID	Product/Item Description	O	1			Used
490	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used

# BHT Beginning of Hierarchical Transaction

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

User Option (Usage): Must use

This segment is mandatory in order to send the transaction properly

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
BHT01	1005	<b>Hierarchical Structure Code</b>	M	ID	4/4	Must use	
		<u>Code</u> <u>Name</u>					
		0001                      Shipment, Order, Packaging, Item					
		0002                      Shipment, Order, Item, Packaging					
		0004                      Shipment, Order, Item					
		UCS structure is Shipment, Order, Tare, Pack and Item					
BHT02	353	<b>Transaction Set Purpose Code</b>	M	ID	2/2	Must use	
		<u>Code</u> <u>Name</u>					
		00                          Original					
BHT03	127	<b>Reference Identification</b>	O	AN	1/30	Used	
		<b>Note:</b> This reference identifier is used to construct the invoice number of the ASN. We take the value in BHT-03 and generate an invoice number in the following way: DA {BHT-03}. So, in this example the invoice # would be: DATESTASN0001. This field can be considered the same as the 'Shipment ID.'					
BHT04	373	<b>Date</b>	O	DT	8/8	Used	
		<b>Description:</b> Date expressed as CCYYMMDD					
BHT05	337	<b>Time</b>	O	TM	4/8	Used	
		<b>Description:</b> Time expressed as HHMM					
BHT06	640	<b>Transaction Type Code</b>	O	ID	2/2	Used	
		<u>Code</u> <u>Name</u>					
		RD                          Returns Detail					
		<b>Note:</b> Indicates delivery or return - 'RD' for return and blank for deliveries.					

# HL Hierarchical Level (Shipment)

Pos: 030	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

This segment is required for each hierarchical level, which includes the Order, Tare, Pack, and Item.

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
HL01	628	<b>Hierarchical ID Number</b>	M	AN	1/12	Must use	
HL02	734	<b>Hierarchical Parent ID Number</b>	M	AN	1/12	Used	
		<b>Note:</b> Contains a blank for the first HL segment sent, then increments by '1' with each HL segment thereafter.					
HL03	735	<b>Hierarchical Level Code</b>	M	ID	1/2	Must use	
		<u>Code</u> <u>Name</u>					
		S                              Shipment					

# G05 Total Shipment Information

Pos: 040	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

To provide totals relating to the shipment

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
G0501	382	Number of Units Shipped	C	R	1/10	Used
<b>Description:</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set						
G0502	355	Unit or Basis for Measurement Code	C	ID	2/2	Used
		<u>Code</u>		<u>Name</u>		
		CA		Case		
		PL		Pallet/Unit Load		

# DTM Date/Time Reference

Pos: 100	Max: 5
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

To specify pertinent dates and times

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use
		<u>Code</u>		<u>Name</u>		
		011		Shipped		
		067		Current Schedule Delivery		
DTM02	373	Date	C	DT	8/8	Used
		Invoice Transmission Date				
<b>Description:</b> Date expressed as CCYYMMDD						
DTM03	337	Time	C	TM	4/8	Used
		Invoice Transmission Time				
<b>Description:</b> Time expressed as HHMM						

# N9 Reference Identification

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

To transmit identifying information as specified by the Reference Identification Qualifier

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use
<b>Description:</b> Division identifier						
N902	127	Reference Identification	C	AN	1/30	Used
<b>Description:</b> Kroger Division # where the invoice is transmitted to.						

# PER Administrative Communications Contact

Pos: 120	Max: 5
Detail - Optional	
Loop: HL	Elements: 6

User Option (Usage): Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use
<b>Description:</b> Code identifying the major duty or responsibility of the person or group named						
		<u>Code</u>	<u>Name</u>			
		IC	Information Contact			
PER02	93	Name	O	AN	1/60	Used
<b>Description:</b> Vendors Technical Contact Name						
PER03	365	Communication Number Qualifier	C	ID	2/2	Used
<b>Description:</b> Code identifying the type of communication number						
		<u>Code</u>	<u>Name</u>			
		TE	Telephone			
PER04	364	Communication Number	C	AN	1/80	Used
<b>Description:</b> Complete communications number including country or area code when applicable						
PER05	365	Communication Number Qualifier	C	ID	2/2	Used
<b>Description:</b> Code identifying the type of communication						
		<u>Code</u>	<u>Name</u>			
		EM	Electronic Mail			
PER06	364	Communication Number	C	AN	1/80	Used
<b>Description:</b> Contacts E-mail Address						

# N1

## Name

<b>Pos: 140</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 4</b>

**User Option (Usage):** Used

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

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3	Must use
		<u>Code</u> <u>Name</u>				
		SF                              Ship From				
		ST                              Ship To				
		O2                              Originating Company				
		<b>Note:</b> (a) N101 (SF, ST and O2) must be used for Credit. (b) N101 (SF and ST ) must be used for Delivery.				
N102	93	<b>Name</b>	C	AN	1/60	Used
		<b>Description:</b> Free-form name				
N103	66	<b>Identification Code Qualifier</b>	C	ID	1/2	Used
		<u>Code</u> <u>Name</u>				
		9                                D-U-N-S+4, D-U-N-S Number with Four Character Suffix				
N104	67	<b>Identification Code</b>	C	AN	2/80	Used
		<b>Description:</b> Code identifying a party or other code				

# HL

## Hierarchical Level (Order)

<b>Pos: 030</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 3</b>

**User Option (Usage):** Must use

This segment is required for each hierarchical level, which includes the Order, Tare, Pack, and Item.

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	<b>Hierarchical ID Number</b>	M	AN	1/12	Must use
HL02	734	<b>Hierarchical Parent ID Number</b>	M	AN	1/12	Used
HL03	735	<b>Hierarchical Level Code</b>	M	ID	1/2	Must use
		<u>Code</u> <u>Name</u>				
		O                                Order				

# TDS Total Monetary Value Summary

Pos: 180	Max: 1
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Used

To specify the total invoice discounts and amounts

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount	M	N2	1/15	Must use

Description: Total invoice amount (including charges and allowances)

# HL Hierarchical Level (Tare)

Pos: 030	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

This segment is required for each hierarchical level, which includes the Order, Tare, Pack, and Item.

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number	M	AN	1/12	Used
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use

<u>Code</u>	<u>Name</u>
T	Tare

# PAL Pallet Information

Pos: 300	Max: 1
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Used

To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PAL01	883	Pallet Type Code	O	ID	1/2	Used

Description: Pallet type code - can be any # 1-7

# MAN Marks and Numbers

Pos: 310	Max: 10
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

To indicate identifying marks and numbers for shipping containers

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use
<b>Description:</b> Code specifying the application or source of Marks and Numbers (87)						
		<u>Code</u>	<u>Name</u>			
		GM	SSCC-18 and Application Identifier			
		<b>Note:</b> Must be 'GM' to support scanning license plates.				
MAN02	87	Marks and Numbers	M	AN	1/48	Must use
<b>Description:</b> Must be a valid SSCC-18 (all 18 digits which includes the check digit)						

# HL Hierarchical Level (Item)

Pos: 030	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

This segment is required for each hierarchical level, which includes the Order, Tare, Pack, and Item.

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number	M	AN	1/12	Used
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
		<u>Code</u>	<u>Name</u>			
		I	Item			

# IT1 Baseline Item Data (Invoice)

Pos: 370	Max: 1
Detail - Optional	
Loop: HL	Elements: 7

User Option (Usage): Used

To specify the basic and most frequently used line item data for the invoice and related transactions

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT101	350	Assigned Identification	O	AN	1/20	Used
<b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set						
IT102	358	Quantity Invoiced	C	R	1/10	Used
<b>Description:</b> Number of units invoiced (supplier units)						

IT103	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Used
<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
		<u>Code</u>	<u>Name</u>			
		CA	Case			
IT104	212	<b>Unit Price</b>	C	R	1/17	Used
<b>Description:</b> Price per unit of product, service, commodity, etc.						
IT105	639	<b>Basis of Unit Price Code</b>	O	ID	2/2	Not Used
<b>Description:</b> Code identifying the type of unit price for an item						
IT106	235	<b>Product/Service ID Qualifier</b>	C	ID	2/2	Used
		<u>Code</u>	<u>Name</u>			
		UP	U.P.C. Consumer Package Code (1-5-5-1)			
<b>Note:</b> We expect a full UCC-12, which is a 12 digit # which includes the check digit.						
IT107	234	<b>Product/Service ID</b>	C	AN	1/48	Used
<b>Note:</b> Actual Consumer UPC must be populated in this field that is 12 digits in length, which does not include the check digit. Kroger will add a zero onto the front to make the UPC a valid GTIN Consumer UPC.						

# PO4 Item Physical Details

Pos: 390	Max: 1
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Used

To specify the physical qualities, packaging, weights, and dimensions relating to the item

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	Pack	O	NO	1/6	Used
<b>Description:</b> Amount of packs per case						

# PID Product/Item Description

Pos: 450	Max: 1
Detail - Optional	
Loop: HL	Elements: 5

User Option (Usage): Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	<b>Item Description Type</b>	M	ID	1/1	Must use
<b>Description:</b> Code indicating the format of a description						
		<u>Code</u>	<u>Name</u>			
		F	Free-form			
PID02	750	<b>Product/Process Characteristic Code</b>	O	ID	2/3	Not Used
<b>Description:</b> Code identifying the general class of a product or process characteristic						
PID03	559	<b>Agency Qualifier Code</b>	C	ID	2/2	Not Used

PID04	751	<b>Description:</b> Code identifying the agency assigning the code values <b>Product Description Code</b>	C	AN	1/12	Not Used
PID05	352	<b>Description:</b> A code from an industry code list which provides specific data about a product characteristic <b>Description</b>	C	AN	1/80	Used
		<b>Description:</b> A free-form description to clarify the related data elements and their content				

# SAC Service, Promotion, Allowance, or Charge Information

Pos: 490	Max: 1
Detail - Optional	
Loop: HL	Elements: 8

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	<b>Allowance or Charge Indicator Code</b>	M	ID	1/1	Must use
		<b>Name</b>				
		A Allowance				
		C Charge				
SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b>	C	ID	4/4	Used
		<b>Name</b>				
		A400 Allowance or Charge code				
SAC03	559	<b>Agency Qualifier Code</b>	C	ID	2/2	Not Used
SAC04	1301	<b>Description:</b> Code identifying the agency assigning the code values <b>Agency Service, Promotion, Allowance, or Charge Code</b>	C	AN	1/10	Not Used
		<b>Description:</b> Agency maintained code identifying the service, promotion, allowance, or charge				
SAC05	610	<b>Amount</b>	O	N2	1/15	Not Used
		<b>Description:</b> Monetary amount				
SAC06	378	<b>Allowance/Charge Percent Qualifier</b>	C	ID	1/1	Not Used
		<b>Description:</b> Code indicating on what basis allowance or charge percent is calculated				
SAC07	332	<b>Percent</b>	C	R	1/6	Not Used
		<b>Description:</b> Percent expressed as a percent				
SAC08	118	<b>Rate</b>	O	R	1/9	Used
		<b>Description:</b> Allowance or Charge rate per selling unit				

**Example****Kroger Credit ASN:**

ST\*857\*0001~  
 BHT\*0001\*00\*TESTASN0001\*20070815\*1100\*RD~  
 HL\*1\*\*S~  
 GO5\*80\*CA or PL~  
 DTM\*067\*20070816\*0600~  
 N9\*19\*014~  
 PER\*IC\*John Doe\*TE\*5136274503\*EM\*john.doe@mycompany.com~  
 N1\*ST\*Supplier Name\*9\*005146295~  
 N1\*SF\*Kroger\*9\*0965091120429~  
 N1\*O2\*Supplier Name~  
 HL\*2\*1\*O~  
 TDS\*-46400~  
 HL\*3\*2\*T~  
 PAL\*6~  
 MAN\*GM\*100123456789000000~  
 HL\*4\*3\*1~  
 IT1\*1\*40\*CA\*13.00\*\*UP\*001200080994~  
 PO4\*2~  
 PID\*F\*\*\*\*XYZ COLA FRIDGE PACK~  
 SAC\*A\*A400\*\*\*\*\*-.62~  
 SE\*43\*0001~  
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**Kroger Delivery ASN:**

ST\*857\*0001~  
 BHT\*0001\*00\*TESTASN0001\*20070815\*1100\*\*~  
 HL\*1\*\*S~  
 GO5\*80\*CA or PL~  
 DTM\*067\*20070816\*0600~  
 N9\*19\*014~  
 PER\*IC\*John Doe\*TE\*5136274503\*EM\*john.doe@mycompany.com~  
 N1\*SF\* Supplier Name\*9\*005146295~  
 N1\*ST\*Kroger\*9\*0965091120429~  
 HL\*2\*1\*O~  
 TDS\*46400~  
 HL\*3\*2\*T~  
 PAL\*6~  
 MAN\*GM\*100123456789000000~  
 HL\*4\*3\*1~  
 IT1\*1\*40\*CA\*13.00\*\*UP\*001200080994~  
 PO4\*2~  
 PID\*F\*\*\*\*XYZ - COLA FRIDGE PACK~  
 SAC\*A\*A400\*\*\*\*\*-.62~  
 SE\*43\*0001~