



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> |
|------------------------|-----------------|--|---|----|---------------|--------------|--------------|
| 030 | HL | Hierarchical Level | M | 1 | ≥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 | | | Must use |
| 120 | PER | Administrative Communications Contact | O | 5 | | | Used |
| <u>LOOP ID - HL/N1</u> | | | | | <u>Repeat</u> | | |
| 140 | N1 | Name | O | 1 | 10 | | Used |
| <u>LOOP ID - HL</u> | <u>ORDER</u> | | | | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> |
| 030 | HL | Hierarchical Level | M | 1 | 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> |
| 030 | HL | Hierarchical Level | M | 1 | 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> |
| 030 | HL | Hierarchical Level | M | 1 | 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 | Hierarchical Structure Code | 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 | Transaction Set Purpose Code | M | ID | 2/2 | Must use |
| | | <u>Code</u> | | <u>Name</u> | | |
| | | 00 | | Original | | |
| BHT03 | 127 | Reference Identification | O | AN | 1/30 | Used |
| | | Note: 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 | Date | O | DT | 8/8 | Used |
| | | Description: Date expressed as CCYYMMDD | | | | |
| BHT05 | 337 | Time | O | TM | 4/8 | Used |
| | | Description: Time expressed as HHMM | | | | |
| BHT06 | 640 | Transaction Type Code | O | ID | 2/2 | Used |
| | | <u>Code</u> | | <u>Name</u> | | |
| | | RD | | Returns Detail | | |
| | | Note: 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 | Hierarchical ID Number | M | AN | 1/12 | Must use |
| HL02 | 734 | Hierarchical Parent ID Number | M | AN | 1/12 | Used |
| | | Note: Contains a blank for the first HL segment sent, then increments by '1' with each HL segment thereafter. | | | | |
| HL03 | 735 | Hierarchical Level Code | 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 |
| | | Description: 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 | | | | |
| | | Description: Date expressed as CCYYMMDD | | | | |
| DTM03 | 337 | Time | C | TM | 4/8 | Used |
| | | Invoice Transmission Time | | | | |
| | | Description: Time expressed as HHMM | | | | |

N9**Reference Identification**

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

User Option (Usage): Must use

Note: As this segment will contain the division number for which the invoice is being sent, the sender MUST include this segment in the EDI transaction.

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 |
| | | Description: Division identifier | | | | |
| N902 | 127 | Reference Identification | C | AN | 1/30 | Used |
| | | Description: 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 |
| | | Description: 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 |
| | | Description: Vendors Technical Contact Name | | | | |
| PER03 | 365 | Communication Number Qualifier | C | ID | 2/2 | Used |
| | | Description: Code identifying the type of communication number | | | | |
| | | <u>Code</u> | | <u>Name</u> | | |
| | | TE | | Telephone | | |
| PER04 | 364 | Communication Number | C | AN | 1/80 | Used |
| | | Description: Complete communications number including country or area code when applicable | | | | |
| PER05 | 365 | Communication Number Qualifier | C | ID | 2/2 | Used |
| | | Description: Code identifying the type of communication | | | | |
| | | <u>Code</u> | | <u>Name</u> | | |
| | | EM | | Electronic Mail | | |
| PER06 | 364 | Communication Number | C | AN | 1/80 | Used |
| | | Description: Contacts E-mail Address | | | | |

N1**Name**

| | |
|--------------------------|--------------------|
| Pos: 140 | Max: 1 |
| Detail - Optional | |
| Loop: N1 | Elements: 4 |

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 | Entity Identifier Code | M | ID | 2/3 | Must use |
| | | <u>Code</u> <u>Name</u> | | | | |
| | | SF Ship From | | | | |
| | | ST Ship To | | | | |
| | | O2 Originating Company | | | | |
| | | Note: (a) N101 (SF, ST and O2) must be used for Credit. (b) N101 (SF and ST) must be used for Delivery. | | | | |
| N102 | 93 | Name | C | AN | 1/60 | Used |
| | | Description: Free-form name | | | | |
| N103 | 66 | Identification Code Qualifier | 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 | Identification Code | C | AN | 2/80 | Used |
| | | Description: Code identifying a party or other code | | | | |

HL**Hierarchical Level
(Order)**

| | |
|---------------------------|--------------------|
| 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> | | | | |
| | | 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 |
| Description: Code specifying the application or source of Marks and Numbers (87) | | | | | | |
| | | <u>Code</u> | <u>Name</u> | | | |
| | | GM | SSCC-18 and Application Identifier | | | |
| | | Note: Must be 'GM' to support scanning license plates. | | | | |
| MAN02 | 87 | Marks and Numbers | M | AN | 1/48 | Must use |
| Description: 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 |
| Description: Alphanumeric characters assigned for differentiation within a transaction set | | | | | | |
| IT102 | 358 | Quantity Invoiced | C | R | 1/10 | Used |
| Description: Number of units invoiced (supplier units) | | | | | | |

| | | | | | | |
|--|-----|---|--|----|------|----------|
| IT103 | 355 | Unit or Basis for Measurement Code | C | ID | 2/2 | Used |
| Description: 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 | Unit Price | C | R | 1/17 | Used |
| Description: Price per unit of product, service, commodity, etc. | | | | | | |
| IT105 | 639 | Basis of Unit Price Code | O | ID | 2/2 | Not Used |
| Description: Code identifying the type of unit price for an item | | | | | | |
| IT106 | 235 | Product/Service ID Qualifier | C | ID | 2/2 | Used |
| | | <u>Code</u> | <u>Name</u> | | | |
| | | UP | U.P.C. Consumer Package Code (1-5-5-1) | | | |
| Note: We expect a full UCC-12, which is a 12 digit # which includes the check digit. | | | | | | |
| IT107 | 234 | Product/Service ID | C | AN | 1/48 | Used |
| Note: U.P.C. Consumer Package Code (1-5-5-1) | | | | | | |

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

| | | | | | | |
|-------|-----|---|---|----|------|----------|
| PID04 | 751 | Description: Code identifying the agency assigning the code values Product Description Code | C | AN | 1/12 | Not Used |
| PID05 | 352 | Description: A code from an industry code list which provides specific data about a product characteristic Description | C | AN | 1/80 | Used |
| | | Description: 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 | Allowance or Charge Indicator Code Code A Allowance C Charge | M | ID | 1/1 | Must use |
| SAC02 | 1300 | Service, Promotion, Allowance, or Charge Code Code A400 Allowance or Charge code | C | ID | 4/4 | Used |
| SAC03 | 559 | Agency Qualifier Code | C | ID | 2/2 | Not Used |
| SAC04 | 1301 | Description: Code identifying the agency assigning the code values Agency Service, Promotion, Allowance, or Charge Code | C | AN | 1/10 | Not Used |
| SAC05 | 610 | Description: Agency maintained code identifying the service, promotion, allowance, or charge Amount | O | N2 | 1/15 | Not Used |
| SAC06 | 378 | Description: Monetary amount Allowance/Charge Percent Qualifier | C | ID | 1/1 | Not Used |
| SAC07 | 332 | Description: Code indicating on what basis allowance or charge percent is calculated Percent | C | R | 1/6 | Not Used |
| SAC08 | 118 | Description: Percent expressed as a percent Rate | O | R | 1/9 | Used |
| | | Description: 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~

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~