

ASC X12 857 Advance Ship Notice Barnes & Noble Transaction Subset

KEY TO FORMAT

Data to left - ASC X12 Data Element Designation

Description in center - ASC X12 Data Element description

Data to right - ASC X12 constant value or data to be sent

"Null" - indicates no data sent (or recognized) for the Data Element

Not Yet Active - Indicates segments which Barnes & Noble will use in the future but is not yet using. These segments may be sent or omitted from transmissions until notification to the contrary from Barnes & Noble.

Table 1

| GS(Active) | | FUNCTIONAL GROUP HEADER | | |
|--------------------|-----|--------------------------------|-----------------------------------|---|
| GS01 | 479 | ID | Functional Identifier Code | 'BS' |
| GS02 | 142 | AN | Application Sender's Code | Vendor SAN |
| GS03 | 124 | AN | Application Receiver's Code | 1709011 |
| GS04 | 29 | DT | Group Date (Translator Generated) | CCYYMMDD |
| GS05 | 30 | TM | Group Time (Translator Generated) | HHMM |
| GS06 | 28 | N0 | Group Control Number | Sequentially assigned to each functional group |
| GS07 | 455 | ID | Responsible Agency Code | 'X' |
| GS08 | 480 | AN | Version/Release/Industry ID Code | '004010 ' |
| ST (Active) | | TRANSACTION SET HEADER | | |
| ST01 | 143 | ID | Transaction Set Identifier Code | '857' |
| ST02 | 329 | AN | Transaction Set Control Number | Sequentially assigned within functional groups |

BHT (Active) BEGINNING OF HIERARCHICAL TRANSACTION

| | | | | |
|-------|------|----|---|------------|
| BHT01 | 1005 | ID | Hierarchical Structure '0001' - Shipment, Order, Packaging, Item | '0001' |
| BHT02 | 353 | ID | Transaction Set Purpose Code (Original) '00' - Original | '00' |
| BHT03 | 127 | AN | Reference Number | Per Sender |
| BHT04 | 373 | DT | Date (Date Ship Notice Created) | CCYYMMDD |

SHIPMENT LEVEL

HL (Active) HIERARCHICAL LEVEL

| | | | | |
|------|-----|----|---|------------|
| HL01 | 628 | AN | Hierarchical ID Number | Per Sender |
| HL02 | 734 | AN | Hierarchical Parent ID | Null |
| HL03 | 735 | ID | Hierarchical Level Code 'S' - Shipment Level | 'S' |

G05 (Not Active) TOTAL SHIPMENT INFORMATION

| | | | | |
|-------|-----|----|--|---------------|
| G0501 | 382 | R | Number of Units Shipped | Per Sender |
| G0502 | 355 | ID | Unit of Measurement Code 'UN' - Unit | 'UN' |
| G0503 | 81 | R | Weight | Carton Weight |
| G0504 | 355 | ID | Unit of Measurement Code 'LB' - Pounds | 'LB' |
| G0505 | 183 | R | Volume | Null |
| G0506 | 355 | ID | Unit of Measurement Code | Null |
| G0507 | 80 | N0 | Lading Quantity | Null |
| G0508 | 355 | ID | Unit of Measurement Code 'CT' - Cartons | Null |

TD1 (Not Active) CARRIER DETAILS (Quantity)

TD5 (Not Yet Active) CARRIER DETAILS (Routing Sequence)

| | | | | |
|-------|-----|----|--|------|
| TD501 | 133 | ID | Routing Sequence Code | NULL |
| TD502 | 66 | ID | Identification Code Qualifier '2' - Standard Carrier Alpha Code (SCAC) '91' - Assigned By Seller '92' - Assigned By Buyer | NULL |
| TD503 | 67 | AN | Identification Code | NULL |
| TD504 | 91 | ID | Transportation Method/Type Code | NULL |
| TD505 | 387 | AN | Routing | NULL |
| TD506 | 368 | ID | Shipment Order/Status Code | NULL |
| TD507 | 309 | ID | Location Qualifier | NULL |
| TD508 | 310 | AN | Location Identifier | NULL |
| TD509 | 731 | ID | Transit Direction Code | NULL |
| TD510 | 732 | ID | Transit Time Direction Qualifier | NULL |
| TD511 | 733 | R | Transit Time | NULL |

| DTM (Active) | | DATE/TIME REFERENCE | | |
|---------------------|-----|----------------------------|---|----------------|
| DTM01 | 374 | ID | Date/Time Qualifier '011' - Shipped '043' – Available Sale Date | As Appropriate |
| DTM02 | 373 | DT | Date | CCYYMMDD |
| DTM03 | 337 | TM | Time | Null |
| DTM04 | 623 | ID | Time Code | Null |

| DTM (Active) | | DATE/TIME REFERENCE | | |
|---------------------|-----|----------------------------|---|----------------|
| DTM01 | 374 | ID | Date/Time Qualifier '011' - Shipped '043' – Available Sale Date | As Appropriate |
| DTM02 | 373 | DT | Date | CCYYMMDD |
| DTM03 | 337 | TM | Time | Null |
| DTM04 | 623 | ID | Time Code | Null |

| N9 (Active) | | REFERENCE NUMBER - (N9 required for each ID) | | |
|--------------------|-----|---|---|----------------|
| N901 | 128 | ID | Reference Number Qualifier 'BM' - Bill of Lading Number 'CN' - Carrier Reference/ProBill Number 'MA' - Manifest Number | As Appropriate |
| N902 | 127 | AN | Reference Number (NUMBER) | Per Sender |

| N9 (Active) | | REFERENCE NUMBER - (N9 required for each ID) | | |
|--------------------|-----|---|---|----------------|
| N901 | 128 | ID | Reference Number Qualifier 'BM' - Bill of Lading Number 'CN' - Carrier Reference/ProBill Number 'MA' - Manifest Number | As Appropriate |
| N902 | 127 | AN | Reference Number (NUMBER) | Per Sender |

| N9 (Active) | | REFERENCE NUMBER - (N9 required for each ID) | | |
|--------------------|-----|---|---|----------------|
| N901 | 128 | ID | Reference Number Qualifier 'BM' - Bill of Lading Number 'CN' - Carrier Reference/ProBill Number 'MA' - Manifest Number | As Appropriate |
| N902 | 127 | AN | Reference Number (NUMBER) | Per Sender |

ORDER LEVEL

| HL (Active) | | HIERARCHICAL LEVEL | | |
|--------------------|-----|---------------------------|--|------------|
| HL01 | 628 | AN | Hierarchical ID Number | Per Sender |
| HL02 | 734 | AN | Hierarchical Parent ID | Per Sender |
| HL03 | 735 | ID | Hierarchical Level Code 'O' - Order Level | 'O' |

| TDS (Not active) | | TOTAL MONETARY VALUE SUMMARY | | |
|-------------------------|-----|-------------------------------------|----------------------|------------|
| TDS01 | 361 | N2 | Total Invoice Amount | Per Sender |

| PRF (Active) | | PURCHASE ORDER REFERENCE | | |
|--|-----|---------------------------------|-----------------------|------------|
| PRF01 | 324 | AN | Purchase Order Number | Per Sender |
| Purchase Order Number in PRF Segment applies to Shipment as a whole. If a different Purchase Order Number applies to an individual line item, use an IT1 pair to override Purchase Order Number in PRF Segment | | | | |

PRF02 - PRF07 Not used at this time.

| N1 (Active) | | NAME | | |
|--------------------|----|-------------|---|----------------|
| N101 | 98 | ID | Entity Identifier Code 'ST' - Ship To 'BT' - Bill To (Not yet active) | As Appropriate |
| N102 | 93 | AN | Name (Optional) | Null |
| N103 | 66 | ID | Identification Code Qualifier '15' – SAN | '15' |
| N104 | 67 | AN | Identification Code (SAN) | Per Sender |

| N1 (Active) | | NAME | | |
|--------------------|----|-------------|---|----------------|
| N101 | 98 | ID | Entity Identifier Code 'SF' - Ship From | As Appropriate |
| N102 | 93 | AN | Name (Optional) | Null |
| N103 | 66 | ID | Identification Code Qualifier '15' – SAN | '15' |
| N104 | 67 | AN | Identification Code (SAN) | Per Sender |

TARE LEVEL – PALLET INFORMATION - OPTIONAL

| HL | (Active) | HIERARCHICAL LEVEL | | |
|-----------|-----------------|---------------------------|--|------------|
| HL01 | 628 | AN | Hierarchical ID Number | Per Sender |
| HL02 | 734 | AN | Hierarchical Parent ID | Per Sender |
| HL03 | 735 | ID | Hierarchical Level Code 'T' - Level | 'T' |

PAL PALLET INFORMATION

| | | | | |
|-------|-----|---|--|------------|
| PAL04 | 356 | Number of inner pack units per outer pack | | Per Sender |
|-------|-----|---|--|------------|

| MAN | (Active) | MARKS AND NUMBERS | | |
|------------|-----------------|--------------------------|--|------|
| MAN01 | 88 | ID | Marks and Numbers Qualifier 'SS' - UCC-128 Serial Shipping Container Code | 'SS' |
| MAN02 | 87 | AN | Marks and Numbers ("License Plate Number" in Pallet Bar Code) | SSCC |

ITEM LEVEL

| HL (Active) | | HIERARCHICAL LEVEL | | |
|--------------------|-----|---------------------------|---|------------|
| HL01 | 628 | AN | Hierarchical ID Number | Per Sender |
| HL02 | 734 | AN | Hierarchical Parent ID | Per Sender |
| HL03 | 735 | ID | Hierarchical Level Code 'I' - Item Level | 'I' |

| IT1 (Active) | | BASELINE ITEM DATA | | |
|---------------------|-----|---------------------------|---|------------------|
| IT101 | 350 | AN | Assigned Identifier | Null |
| IT102 | 358 | R | Quantity Invoiced | Quantity Shipped |
| IT103 | 355 | ID | Unit of Measurement Code 'UN' - Unit | 'UN' |

Following Data Element contains the *Unit Net Price* (unit price after discount, rounded by vendor)

| | | | | |
|-------|-----|----|--|-----------|
| IT104 | 212 | R | Unit Price | Net Price |
| IT105 | 639 | ID | Basis Unit Price Code 'PE' - Price Each (Net) | 'PE' |

(For following optional information, use next available IT1 pair, not dedicated pairs)

| | | | | |
|-------|-----|----|--|-----------|
| IT104 | 212 | R | Unit Price | Net Price |
| IT105 | 639 | ID | Basis Unit Price Code 'PE' - Price Each (Net) | 'PE' |

| | | | | |
|-------|-----|---------|--|-----------|
| IT106 | 235 | ID | Product/Service ID Qualifier | Preferred |
| | | Shipped | 'IB' – ISBN-10 'UP' – UPC-12 'EN' – EAN/ISBN-13 'UK' – GTIN/EAN-14 | "IB" |
| | | | Ordered/Not Shipped 'AI' – ISBN-10 'RP' – UPC-12 'RR' – EAN/ISBN-13 'SR' – GTIN/EAN-14 | |
| IT107 | 234 | AN | Product/Service ID | ISBN-10 |
| IT108 | 235 | ID | Product/Service ID Qualifier | Preferred |
| | | Shipped | 'IB' – ISBN-10 'UP' – UPC-12 'EN' – EAN/ISBN-13 'UK' – GTIN/EAN-14 | "EN" |
| | | | Ordered/Not Shipped 'AI' – ISBN-10 'RP' – UPC-12 'RR' – EAN/ISBN-13 'SR' – GTIN/EAN-14 | |
| IT109 | 234 | AN | Product/Service ID | EAN-13 |

(For following optional information, use next available IT1 pair, not dedicated pairs)
Purchase Order Number associated with the Item differs from the PO Number in PRF01

| | | | | |
|-------|-----|----|------------------------------|-----------|
| IT110 | 235 | ID | Product/Service ID Qualifier | 'PO' |
| IT111 | 234 | AN | Product/Service ID | PO Number |

Purchase Order Number in PRF Segment applies to Shipment as a whole. If a different Purchase Order Number applies to an individual line item, use an IT1 pair to override Purchase Order Number in PRF

| | | | | |
|-------|-----|---------|---|-----------|
| IT120 | 235 | ID | Product/Service ID Qualifier | Preferred |
| | | Shipped | 'IB' – ISBN-10 'UP' – UPC-12 'EN' – EAN/ISBN-13 'UK' – GTIN/EAN-14 | "UK" |

Ordered/Not Shipped

- 'AI' – ISBN-10
- 'RP' – UPC-12
- 'RR' – EAN/ISBN-13
- 'SR' – GTIN/EAN-14

| | | | | |
|-------|-----|----|--------------------|------------|
| IT130 | 234 | AN | Product/Service ID | GTIN/EAN14 |
|-------|-----|----|--------------------|------------|

| | | | | |
|-------|-----|---------|---|----------------|
| IT140 | 235 | ID | Product/Service ID Qualifier | As Appropriate |
| | | Shipped | 'IB' – ISBN-10 'UP' – UPC-12 'EN' – EAN/ISBN-13 'UK' – GTIN/EAN-14 | |

Ordered/Not Shipped

- 'AI' – ISBN-10
- 'RP' – UPC-12
- 'RR' – EAN/ISBN-13
- 'SR' – GTIN/EAN-14

| | | | | |
|-------|-----|----|--------------------|----------------|
| IT150 | 234 | AN | Product/Service ID | As Appropriate |
|-------|-----|----|--------------------|----------------|

| | | | | |
|-------|-----|----|------------------------------|----------------|
| IT160 | 235 | ID | Product/Service ID Qualifier | As Appropriate |
|-------|-----|----|------------------------------|----------------|

Shipped 'IB' – ISBN-10
 'UP' – UPC-12
 'EN' – EAN/ISBN-13
 'UK' – GTIN/EAN-14

Ordered/Not Shipped
 'AI' – ISBN-10
 'RP' – UPC-12
 'RR' – EAN/ISBN-13
 'SR' – GTIN/EAN-14

IT170 234 AN Product/Service ID As Appropriate

| PO4 (active) | | ITEM PHYSICAL DETAILS | | |
|---------------------|-----|------------------------------|---------------------------------------|--------------|
| PO401 | 356 | NO | Pack Case pack quantity | Per Sender |
| PO402 | 357 | R | Size | Null |
| PO403 | 355 | ID | Unit of Measurement Code | Null |
| PO404 | 103 | AN | Packaging Code | CTN71 |
| PO405 | 187 | ID | Weight Qualifier U – Unit measure | 'U' |
| PO406 | 384 | R | Gross Weight per Pack | 'Per Sender' |
| PO407 | 355 | ID | Unit of Measurement Code | |
| PO408 | 385 | R | Gross Volume per Pack | Null |
| PO409 | 355 | ID | Unit of Measurement Code | NULL |
| PO410 | 82 | R | Length | Per Sender |
| PO411 | 189 | R | Width | Per Sender |
| PO412 | 65 | R | Height | Per Sender |
| Po413355 | ID | | Unit of Measurement Code IN - Inch | 'IN' |

CTP (Active) PRICING INFORMATION

| | | | | |
|-------|-----|----|--|------------|
| CTP01 | 687 | ID | Class of Trade Code | Null |
| CTP02 | 236 | ID | Price Qualifier Code 'SLP' - Suggested List Price | 'SLP' |
| CTP03 | 212 | R | Unit Price | Per Sender |
| CTP04 | 380 | R | Quantity | Null |
| CTP05 | 355 | ID | Unit of Measurement Code | Null |
| CTP06 | 648 | ID | Price Multiplier ID Qualifier | 'DIS' |
| CTP07 | 649 | R | Multiplier | Per Sender |

ASC X12 multiplier is defined as a 'Real Number' and must carry a decimal. A discount of 43% is represented by a multiplier of .57 in X12. BISAC fixed format states the same discount as 43000.

SE (Active) TRANSACTION SET TRAILER

| | | | | |
|------|-----|----|--------------------------------|--|
| SE01 | 96 | N0 | Number of Included Segments | Count of all segments including 'ST' and 'SE' |
| SE02 | 329 | AN | Transaction Set Control Number | Must be the same number as in the ST02 segment |

GE (Active) FUNCTIONAL GROUP TRAILER

| | | | | |
|------|----|----|-------------------------|--|
| GE01 | 97 | N0 | Number of Included Sets | Count of 'ST' segments |
| GE02 | 28 | N0 | Group Control Number | Must be the same number as in the GS06 segment |