

Brooks Pharmacy

EDI Implementation Guide
For Purchase Orders
(ANSI X12 850 Version 4010)

June 1999

Version 2.2

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Overview

Objective

The purpose of this document is to provide detailed information of our mapping of the ANSI X12 850 purchase order and the ANSI X12 997 functional acknowledgment, version 4010.

Contacts

Questions Regarding	Contact	Phone
Test Scheduling	IBM Global Services (Advantis)	(800) 588-5808
Brooks EDI contact	Lisa Cardoza <i>EDI Technical Contact</i>	(401) 825-3828
Brooks EDI backup	Barbara Donnellan <i>EDI Project Manager</i>	(401) 825-3986

Types of EDI Purchase Orders

Currently, Brooks transmits the ANSI X12 850 purchase order, version 4010.

Checklist for Purchase Order Implementation

Type Of Task	Start Date	Comp Date
Assign technical resource to implement Brooks EDI Purchase Orders		
Book test appointment period with IBM Global Services		
Fax the EDI Test Appointment Form to IBM Global Services (Last page of this document)		
If you plan to integrate, assign technical resource to design and develop an application data file which meets translation and mapping requirements		
Determine if your translator contains the ANSI X12 850 and 997 standard (version 4010). If not, obtain standard from translator provider.		
Create inbound map to meet Brooks 850 mapping specs.		
Create outbound map to meet Brooks 997 mapping specs.		
Perform internal testing prior to testing with IBM Global Services.		
Begin connectivity testing with IBM Global Services.		
Receive initial test PO from Brooks.		
Finalize internal testing prior to parallel testing using the initial test PO		
Begin application/parallel testing with Brooks. Ensure you compare the EDI purchase order to the actual paper purchase order.		
Verify UPCs and vendor item numbers transmitted through initial test PO and report corrections to Brooks.		
Complete testing process with Brooks.		
Document desk procedures		
Fix target date to move EDI to production (no manual PO)		

Testing

Testing is required before suppliers can receive EDI purchase orders from Brooks on a production basis.

Test scheduling will be conducted by IBM Global Services (formerly Advantis) on behalf of Brooks. Suppliers are requested to book a test appointment with IBM Global Services (ref.: Checklist). Suppliers should ensure that the appropriate technical resource is available. Any development work to ensure compliance with Brooks' data map should be completed *PRIOR* to testing with IBM Global Services.

Testing is organized into the following three parts. It should take no longer than 4 weeks to complete. (Suppliers may complete testing within 1 week if all test requirements have been met)

- Connectivity Testing (1 week period)
- Initial Testing (1 day)
- Parallel Testing (3 week period)

Brooks will then contact you and agree on a date to when paper purchase orders can be suppressed.

Pre-Test Preparation

Suppliers prepare their systems to receive Brooks purchase orders *PRIOR* to initiating testing with IBM Global Services. (ref.: Checklist).

Connectivity Testing

IBM Global Services will send generic test purchase orders for you to process through your translator. Once this is completed, and a detailed positive functional (997) is successfully transmitted to Brooks, you will proceed to initial and parallel testing with Brooks.

Initial Testing (UPC and vendor item number verification)

Upon completion of connectivity testing, Brooks initial transmission will be a test PO containing a complete list of all active warehouse items that we purchase from you, and composed of all the segments and conditions that you might receive in the future. The initial test PO should be used to finalize your internal tests and also to verify the validity of UPCs and vendor item numbers. The updating of UPCs and vendor item numbers can be completed within the parallel testing period since Brooks expects the parallel testing to start immediately after this transmission. The corrections, if any, should be faxed to Brooks on a document that will show both old and corrected UPCs, corrected vendor item numbers and full item description.

Parallel Testing

Brooks will transmit EDI purchase orders during this period. These EDI purchase orders should be compared to the regular production purchase order for accuracy. Any technical changes or issues should be resolved within the three week period as Brooks is planning to suppress the paper purchase order subsequent to testing.

Prior to moving to production, the supplier and Brooks will agree that the paper purchase order can be discontinued.

Production

In production you will receive the EDI PO 'only'. By now you must have established desk procedures to ensure that the EDI orders are retrieved on a regular basis and have an established process for flowing through your order entry system. The use of the 997 is mandatory for us to confirm that you have received our order.

Brooks EDI Communication Information

Item	Connectivity Test	Parallel Test	Production
Standard	ANSI X12	ANSI X12	ANSI X12
Version	4010	4010	4010
Network	IBM Global Services	IBM Global Services	IBM Global Services
Qualifier	01	01	01
Sender/Receiver ID	089347736T	089347736	089347736
Test Indicator	T	T	P
Segment Delimiter (ASCII/EBCDIC)	Hex 15/15	Hex 15/15	Hex15/15
Element Delimiter (ASCII/EBCDIC)	Hex 2A/5C	Hex 2A/5C	Hex 2A/5C
Subelement Delimiter (ASCII/EBCDIC)	Hex 3E/6E	Hex 3E/6E	Hex 3E/6E
Send Times (850)	Mutually Defined	9:00 p.m.	9:00 p.m.
Receive Times (997)	Mutually Defined	6:00 p.m.	6:00 p.m.

If you are a customer on IBM Global Services, you will need the following Brooks - Account and User ID information to establish communications.

Item	Connectivity Test	Parallel Test	Production
Account ID	BMDI	BMDI	BMDI
User ID	BMDTEST	BMDPROD	BMDPROD

Purchase Order Mapping

Data Element to be Exchanged

This is a summary of the data that Brooks sends for outgoing purchase order transactions, and a cross reference of where this data can be found.

Typical P.O. Data	850 Data Mapping
PO Type/PO Number/PO Date	BEG01/BEG02/BEG03/BEG05
Drug Enforcement Administration number	REF01/REF02
Buyer Name / Delivery Appointment	PER01/PER02/PER03/PER04
Promotion Information	SAC01/SAC02/SAC13/SAC14
PO Payment Terms	ITD01/ITD02/ITD03/ITD04/ITD05/ITD06/ ITD07/ITD12
Required By Date / Promotion Date	DTM01/DTM02
PO Messages (General)	MSG01
Bill-to Location	N101/N102/N103/N104/N301/N302/N401/N 402/N403/N404
Ship-to Location	N101/N102/N103/N104/N301/N302/N401/N 402/N403/N404
PO Quantity/Unit of Measure/Price	PO102/PO103/PO104
UPC/Vendor Item Number/Buyer's Item Number	PO106/PO107/PO108/PO109/PO110/PO111
Product/Service Description	PID01/PID05
Item Details	PO401
Allowances	SAC01/SAC02/SAC08/SAC12/SAC13
Item Payment Terms	ITD01/ITD02/ITD03/ITD04/ITD05/ITD06/ ITD07/ITD12

Segment Summary

These are the segments that we use from the 850, and a description of their purpose.

The codes for the Required (Req.) column are as follows:

M - ANSI mandatory, required and used by Brooks.
 O - ANSI optional, may be required and used by Brooks.
 X - ANSI conditional, may be required and used by Brooks.

The MAX USE column is Brooks’ maximum use of that segment. It may be different from the ANSI X12 standards MAX USE, but never more than the ANSI X12 standards MAX USE.

The mapping specifications will only contain segments deemed necessary via the ANSI X12 standards and Brooks business requirements. Segments that are optional and not a requirement for Brooks applications will not appear in the Brooks EDI map.

Envelope Header (One occurrence per transmission)				
Seg ID	Segment Name	Req.	Max Use	Segment Description
ISA	Interchange Control Header	M	1	Control information for all documents in this transmission
GS	Functional Group Header	M	1	Control information for all documents in this functional group.
End of Envelope Header				

Document Information (One occurrence per purchase order)				
Seg ID	Segment Name	Req.	Max Use	Segment Description
ST	Transaction Set Header	M	1	Control information for this document
BEG	Purchase Order	M	1	General PO information
REF	Reference Numbers	O	1	Drug Enforcement Administration number
PER	Administrative Communications Contact	O	2	Buyer / Assistant names & phone numbers and warehouse phone number
SAC	Service, Promotion, Allowance, or Charge Information	O	1	Specify Brooks’ promotion information
ITD	Terms of Sale	O	1	Terms of sale
DTM	Date / Time Reference	O	2	Required by date and promotion date
N9	Reference Identification	O	1	No info. There so MSG could be used.
MSG	Message Text	O	4	Messages to apply to whole PO
Name Loop (2 occurrences)				
N1	Name (Ship-to, Bill-to)	O	1	Name
N3	Address Information	O	1	Address
N4	Geographic Location	O	1	City, state, zip code
End of Name Loop				
End of Document Information Loop				

Detail Information Loop (Up to 999 occurrences per purchase order)				
Seg ID	Segment Name	Req.	Max Use	Segment Description
PO1	P.O. Baseline Item Data	M	1	Line item detail
PID	Product / Item Description	O	1	Product description
PO4	Item Physical Details	O	1	Specify pack
SAC	Service, Promotion, Allowance, or Charge Information	O	25	Specify off-invoice and bill back allowances & Free goods
ITD	Terms of sale	O	1	Terms of sales
End of Detail Information Loop				

Closing Document (One occurrence per purchase order)				
Seg ID	Segment Name	Req.	Max Use	Segment Description
CTT	Transaction Totals	M	1	PO unit total amounts
AMT	Monetary Amount	O	1	PO monetary total amount
SE	Transaction Set Trailer	M	1	Document control numbers
End of Closing Document				

Envelope Trailer (One occurrence per transmission)				
Seg ID	Segment Name	Req.	Max Use	Segment Description
GE	Functional Group Trailer	M	1	Group control numbers
IEA	Interchange Control Trailer	M	1	Interchange control numbers
End of Envelope Trailer				

Segment Definitions**ISA - Interchange Control Header**

Description To start and identify an interchange of one or more functional groups and interchange related control segments.

Segment Details This is an ANSI mandatory segment and will be generated by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
ISA01	I01	Authorization Information Qualifier	ID	M	02/02	00
ISA02	I02	Authorization Information	AN	M	10/10	BLANK
ISA03	I03	Security Information Qualifier	ID	M	02/02	00
ISA04	I04	Security Information	AN	M	10/10	BLANK
ISA05	I05	Interchange ID Qualifier	ID	M	02/02	01
ISA06	I06	Interchange Sender ID	ID	M	15/15	089347736
ISA07	I05	Interchange ID Qualifier	ID	M	02/02	Provided by receiver
ISA08	I07	Interchange Receiver ID	ID	M	15/15	Provided by receiver
ISA09	I08	Interchange Date	DT	M	06/06	Software generated
ISA10	I09	Interchange Time	TM	M	04/04	Software generated
ISA11	I10	Interchange Control Standards ID	ID	M	01/01	U
ISA12	I11	Interchange Version ID	ID	M	05/05	00401
ISA13	I12	Interchange Control Number	N0	M	09/09	Software generated
ISA14	I13	Acknowledgment Request	ID	M	01/01	0
ISA15	I14	Test Indicator	ID	M	01/01	T - Test P - Production
ISA16	I15	Subelement Separator	ID	M	01/01	>

GS - Functional Group Header

Description To indicate the beginning of a functional group and to provide control information.

Segment Details This is an ANSI mandatory segment and will be used by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
GS01	479	Functional ID	ID	M	02/02	PO
GS02	142	Application Sender ID	AN	M	02/12	089347736
GS03	124	Application Receiver ID	AN	M	02/12	Provided by trading partner
GS04	029	Group Date	DT	M	08/08	System generated
GS05	030	Group Time	TM	M	04/08	System generated
GS06	028	Group Control Number	N0	M	01/09	System generated
GS07	455	Responsible Agency Code	ID	M	01/02	X
GS08	480	Version-Release-Industry ID Code	ID	M	01/12	004010

ST - Transaction Set Header

Description To indicate the beginning of a transaction set and to assign a control number.

Segment Details This is an ANSI mandatory segment and will be used by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
ST01	143	Transaction Set ID	ID	M	03/03	850
ST02	329	Transaction Set Control Number	AN	M	04/09	System generated

BEG - Beginning Segment for Purchase Order

Description To indicate the beginning of a purchase order transaction set and transmit identifying numbers and dates.

Segment Details This is an ANSI mandatory segment and will be used by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
BEG01	353	Transaction Set Purpose Code	ID	M	02/02	00 – Original
BEG02	092	PO Type	ID	M	02/02	<i>See note</i>
BEG03	324	PO Number	AN	M	01/22	Brooks PO number
BEG05	323	PO Date	DT	M	08 /08	PO date (YYYYMMDD)

Note: The following entries are valid for Brooks purchase orders:

NE - New Order

Will be used for regular orders.

RO - Rush Order

*Will be used for RUSH orders. **Please call the buyer if his order cannot be delivered on requested delivery date.***

PR - Promotion Order

Will be used for promotion orders (Brooks promotions). The promotion information will be transmitted in 2 different ways to accommodate all of our partners.

1- *You will find an SAC segment with an allowance or charge indicator ‘N’ in the header portion of the transaction where the reference and option number will indicate the promotion type and number.*

2- *If the order is for a **Circular** promotion then you will also find a DTM segment with a date/time qualifier ‘015’ in the header portion of the transaction where the date will be the promotion starting date.*

REF - Reference Numbers

Description To specify identifying numbers.

Segment Details This is an ANSI optional segment and may be used by Brooks if Drug Enforcement Administration number is required.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
REF01	128	Reference Number Qualifier	ID	M	02/02	DH - Drug Enforcement Administration number
REF02	127	Reference Number	AN	O	01/30	Drug Enforcement Administration number

PER - Administrative Communications Contact

Description To identify a person or office to whom communication should be directed.

Segment Details This is an ANSI optional segment and will be used by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
PER01	366	Contact Function Code	ID	O	02/02	<i>See note</i>
PER02	93	Name	AN	O	01/60	Buyer / Assistant names
PER03	365	Comm. No. Qualifier	ID	O	02/02	TE - Phone number
PER04	364	Comm. No.	AN	O	01/25	Phone number

Note: The following entries are valid for Brooks purchase orders:

BD - Buyer

Will be used to identify the buyer or assistant name and phone number.
(PER01, PER02, PER03, PER04)

WH - Warehouse

Will be used to identify the warehouse phone number for delivery appointment.
(PER01, PER03, PER04)

SAC - Service, Promotion, Allowance or Charge Information

Description Specify the amount or percentage of services, promotions allowances or charges.

Segment Details This is an ANSI optional segment and may be used by Brooks to indicate promotion types and numbers for promotion orders.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
SAC01	248	Allow. or Charge Indicator	ID	M	01/01	N - No Allowance or Charge
SAC02	1300	Service, Allow., or Charge Code	ID	O	04/04	H010 - Special Buy
SAC13	127	Reference Number	AN	O	01/30	Promotion number
SAC14	770	Option Number	AN	O	01/20	<i>See note</i>

Note: *The following entries are valid for Brooks purchase orders:*

CI - Circular

*For a **Circular** promotion, the promotion number is the starting date of the promotion in format YYMMDD. You will also find this date in the DTM segment with date/time qualifier '015'.*

EC - End Caps

FO - Forced Distribution

FS - Floor Stands

NI - New Items

PW - Power Wing

SE - Seasonal

For these types, the promotion number is a sequential number assigned by our system.

ITD - Terms of Sale

Description To specify terms of sales.

Segment Details This is an ANSI optional segment and may be used by Brooks if there is a default term for the PO.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
ITD01	336	Terms Type Code	ID	O	02/02	<i>See note</i>
ITD02	333	Terms Basis Date Code	ID	O	01/02	3 - Invoice date
ITD03	338	Terms Discount Percent	R	O	01/06	Discount percentage
ITD04	370	Terms Discount Due Date	DT	X	08/08	Discount due date (YYYYMMDD)
ITD05	351	Terms Discount Days Due	NO	X	01/03	Number of discount days
ITD06	446	Terms Net Due Date	DT	O	08/08	Net due date (YYYYMMDD)
ITD07	386	Terms Net Days	NO	O	01/03	Number of net days
ITD12	352	Description	AN	O	01/80	Terms description

Note: The following entries are valid for Brooks purchase orders:

01 - Basic

Will be used for terms with number of days (Ex: 2% 10/NET 30, or NET 30).

The following fields will be used: ITD01, ITD02, ITD03, ITD05, ITD07 and ITD12.

02 - End of Month

Will be used for end of month terms (Ex: 2% 10/EOM).

The following fields will be used: ITD01, ITD02, ITD03, ITD05, and ITD12.

03 - Fixed Date

Will be used for terms with fixed dates (Ex: 2% 19960122/NET 19960212, or NET 19960212).

The following fields will be used: ITD01, ITD02, ITD03, ITD04, ITD06 and ITD12.

DTM - Date / Time Reference

Description To specify pertinent dates and times.

Segment Details This is an ANSI optional segment and will be used by Brooks to specify the requested delivery date and the promotion starting date for circulars.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
DTM01	374	Date/Time Qualifier	ID	M	03/03	<i>See note</i>
DTM02	373	Date	DT	X	08/08	YYYYMMDD

Note: The following entries are valid for Brooks purchase orders:

002 - Delivery requested
*Will be used to specify the requested delivery date **on all purchase orders.***

015 - Promotion start
*Will be used with **circular** promotion orders to specify the starting date of the promotion.*

N9 – Reference Identification

Description To transmit identifying information as specified by the Reference Identification Qualifier.

Segment Details This is an ANSI optional segment and may be used by Brooks when the MSG segment will be used because it is mandatory when using MSG. No valuable information is present in this segment.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
N901	128	Reference Identification Qualifier	ID	M	02/03	ZZ
N902	127	Reference Identification	AN	X	01/30	0

MSG – Message Text

Description To provide a free-form format that allows the transmission of text information.

Segment Details This is an ANSI optional segment and may be used by Brooks if general instructions are required on an order level.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
MSG01	933	Free-Form Message Text	AN	M	01/60	Message

N3 - Address Information

Description To specify the location of the named party.

Segment Details This is an ANSI optional segment and will be used by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
N301	166	Address Information	AN	M	01/35	Address (line 1)
N302	166	Address Information	AN	O	01/35	Address (line 2)

N4 - Geographic Location

Description To specify the geographic place of the named party

Segment Details This is an ANSI optional segment and will be used by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
N401	019	City Name	AN	O	02/30	City
N402	156	State Code	ID	O	02/02	State code
N403	116	Zip Code	ID	O	03/11	Zip code
N404	026	Country Code	ID	O	02/03	Country code

PO1 - Purchase Order Baseline Item Data

Description To specify line item data.

Segment Details This is an ANSI mandatory segment and will be used by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
PO102	330	Quantity Ordered	R	M	01/09	Order quantity - <i>See note</i>
PO103	355	Unit of Measure Code	ID	M	02/02	CA - Case EA - Each
PO104	212	Unit Price	R	X	01/14	Unit price according to unit of measure - <i>See note</i>
PO106	235	Product/Service ID Qualifier	ID	O	02/02	<i>See note</i>
PO107	234	Product/Service ID	AN	C	01/30	<i>See note</i>
PO108	235	Product/Service ID Qualifier	ID	O	02/02	VN - Vendor Item Number
PO109	234	Product/Service ID	AN	C	01/30	Vendor Item Number
PO110	235	Product/Service ID Qualifier	ID	O	02/02	IN - Buyer's Item Number
PO111	234	Product/Service ID	AN	C	01/30	Buyer's Item Number

Note: The following entries are valid for Brooks purchase orders:

PO102

Free good quantities, if any, are not included in the Quantity Ordered.

PO104

*The unit price is the vendor's base cost according to the unit of measure.
Taxes are not included.*

PO106

UP - U.P.C. Consumer Package Code (1-5-5-1)
EN - E.A.N. European Article Number (2-5-5-1)
ND - N.D.C. National Drug Code (5-4-2)
NH - National Health Related Item Code

PO107

Item code according to PO106

PID - Product / Item Description

Description To describe a product in a free-form format.

Segment Details This is an ANSI optional segment and will be used by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
PID01	349	Item Description	ID	M	01/01	F - Free-form
PID05	352	Description	AN	X	01/80	Item description

PO4 - Item Physical Details

Description To specify pack and case sizes.

Segment Details This is an ANSI optional segment and will be used by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
PO401	356	Pack	N0	M	01/06	Number of units in a case

SAC - Service, Promotion, Allowance or Charge Information

Description Specify the amount or percentage of services, promotions allowances or charges.

Segment Details This is an ANSI optional segment and may be used by Brooks to indicate **free goods, off-invoice and bill back allowances.**

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
SAC01	248	Allow. or Charge Indicator	ID	M	01/01	A - Allowance
SAC02	1300	Service, Allow., or Charge Code	ID	O	04/04	<i>See note</i>
SAC08	359	Allowance Rate	R4	O	01/09	Number of free units/ or off-invoice amount per unit/ or bill back amount per unit
SAC12	331	Allow. or Charge Method of Handling Code	ID	O	02/02	01 - Bill Back 02 - Off invoice
SAC13	127	Reference Number	AN	O	01/30	Brooks' deal number

Note: The following entries are valid for Brooks purchase orders:

D170 - Free Goods

For a free goods allowance, element SAC08 will indicate the number of free units to be shipped with this order

F670 - Price and Marketing Allowance

For an off-invoice (SAC12='02') or a bill back (SAC12='01') allowance, element SAC08 will indicate the rebate amount per unit

ITD - Terms of Sale

Description To specify terms of sales.

Segment Details This is an ANSI optional segment and may be used by Brooks if their is a default term for the item.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
ITD01	336	Terms Type Code	ID	O	02/02	<i>See note</i>
ITD02	333	Terms Basis Date Code	ID	O	01/02	3 - Invoice date
ITD03	338	Terms Discount Percent	R	O	01/06	Discount percentage
ITD04	370	Terms Discount Due Date	DT	X	08/08	Discount due date (YYYYMMDD)
ITD05	351	Terms Discount Days Due	NO	X	01/03	Number of discount days
ITD06	446	Terms Net Due Date	DT	O	08/08	Net due date (YYYYMMDD)
ITD07	386	Terms Net Days	NO	O	01/03	Number of net days
ITD12	352	Description	AN	O	01/80	Terms description

Note: The following entries are valid for Brooks purchase orders:

01 - Basic

Will be used for terms with number of days (Ex: 2% 10/NET 30, or NET 30).

The following fields will be used: ITD01, ITD02, ITD03, ITD05, ITD07 and ITD12.

02 - End of Month

Will be used for end of month terms (Ex: 2% 10/EOM).

The following fields will be used: ITD01, ITD02, ITD03, ITD05, and ITD12.

03 - Fixed Date

Will be used for terms with fixed dates (Ex: 2% 19960122/NET 19960212, or NET 19960212).

The following fields will be used: ITD01, ITD02, ITD03, ITD04, ITD06 and ITD12.

CTT - Transaction Totals

Description To transmit the total number of lines in the transaction set.

Segment Details This is an ANSI mandatory segment and will be used by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
CTT01	354	Number of Line Items	N0	M	01/06	Number of PO1 segments
CTT02	347	Hash Total	R	O	01/10	Total order quantity

AMT - Monetary Total

Description To specify the total monetary amount for the order.

Segment Details This is an ANSI optional segment and will be used by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
AMT01		Amount Qualifier Code	ID	M	01/02	TT - Total transaction amount
AMT02		Monetary Amount	R	M	01/15	Total PO amount

Note: The monetary amount, element AMT02, is the total PO amount including off-invoice allowances specified in segment SAC. Taxes are not included.

SE - Transaction Set Trailer

Description To indicate the end of a transaction set and to provide the count of the transmitted segments including the ST and SE segments.

Segment Details This is an ANSI mandatory segment and will be generated by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
SE01	096	Number of Includes Segments	N0	M	01/10	Total number of segments within a transaction including ST and SE segments
SE02	329	Transaction Set Control Number	AN	M	04/09	Will be the same as ST02

GE - Functional Group Trailer

Description To indicate the end of a functional group and to provide control information.

Segment Details This is an ANSI mandatory segment and will be generated by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
GE01	097	Number of Included Transaction Sets	N0	M	01/06	Total number of ST segments
GE02	028	Data Interchange Control Number	N0	M	01/09	Will be the same as GS06

IEA - Interchange Control Trailer

Description To define the end of one or more functional groups and interchange-related control segments.

Segment Details This is an ANSI mandatory segment and will be generated by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
IEA01	I16	Number of Included Groups	N0	M	01/05	Total number of GS segments
IEA02	I12	Interchange Control Number	N0	M	09/09	Will be the same as ISA13

Functional Acknowledgment Mapping

Segment Summary

These are the segments that we expect to receive the 997, and a description of their purpose.

The codes for the Required (Req.) column are as follows:

M - ANSI mandatory, required and used by Brooks.

O - ANSI optional, may be required and used by Brooks.

The mapping specifications will only contain segments deemed necessary via the ANSI X12 standards and Brooks business requirements. Segments that are optional and not a requirement for Brooks applications will not appear in the Brooks EDI map.

Envelope Header (One occurrence per transmission)				
Seg ID	Segment Name	Req.	Max Use	Segment Description
ISA	Interchange Control Header	M	1	Control information for all documents in this transmission
GS	Functional Group Header	M	1	Control information for all documents in this functional group.
End of Envelope Header				

Document Information (One occurrence per Functional Acknowledgment)				
Seg ID	Segment Name	Req.	Max Use	Segment Description
ST	Transaction Set Header	M	1	Control information for this document
AK1	Functional Group Response Header	M	1	To start Ack. of functional group
Transaction Set Loop (One occurrence per Transaction Set)				
AK2	Transaction Set Response Header	O	1	To start Ack. of transaction set
AK5	Transaction Set Response Trailer	M	1	To end Ack. of transaction set
End of Transaction Set Loop				
End of Document Information				

Closing Document (One occurrence per purchase order)				
Seg ID	Segment Name	Req.	Max Use	Segment Description
AK9	Functional Group Response Trailer	M	1	Accept./reject/errors for funct. group
SE	Transaction Set Trailer	M	1	Document control numbers
End of Closing Document				

Envelope Trailer (One occurrence per transmission)				
Seg ID	Segment Name	Req.	Max Use	Segment Description
GE	Functional Group Trailer	M	1	Group control numbers
IEA	Interchange Control Trailer	M	1	Interchange control numbers
End of Envelope Trailer				

Segment Definitions

ISA - Interchange Control Header

Description To start and identify an interchange of one or more functional groups and interchange related control segments.

Segment Details This is an ANSI mandatory segment and will be expected by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
ISA01	I01	Authorization Information Qualifier	ID	M	02/02	00
ISA02	I02	Authorization Information	AN	M	10/10	BLANK
ISA03	I03	Security Information Qualifier	ID	M	02/02	00
ISA04	I04	Security Information	AN	M	10/10	BLANK
ISA05	I05	Interchange ID Qualifier	ID	M	02/02	Provided by sender
ISA06	I06	Interchange Sender ID	ID	M	15/15	Provided by sender
ISA07	I05	Interchange ID Qualifier	ID	M	02/02	01
ISA08	I07	Interchange Receiver ID	ID	M	15/15	089347736
ISA09	I08	Interchange Date	DT	M	06/06	Software generated
ISA10	I09	Interchange Time	TM	M	04/04	Software generated
ISA11	I10	Interchange Control Standards ID	ID	M	01/01	U
ISA12	I11	Interchange Version ID	ID	M	05/05	00401
ISA13	I12	Interchange Control Number	N0	M	09/09	Software generated
ISA14	I13	Acknowledgment Request	ID	M	01/01	0
ISA15	I14	Test Indicator	ID	M	01/01	T - Test P - Production
ISA16	I15	Subelement Separator	ID	M	01/01	>

GS - Functional Group Header

Description To indicate the beginning of a functional group and to provide control information.

Segment Details This is an ANSI mandatory segment and will be expected by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
GS01	479	Functional ID	ID	M	02/02	FA
GS02	142	Application Sender ID	AN	M	02/12	Provided by sender
GS03	124	Application Receiver ID	AN	M	02/12	089347736
GS04	029	Group Date	DT	M	08/08	System generated
GS05	030	Group Time	TM	M	04 /08	System generated
GS06	028	Group Control Number	N0	M	01/09	System generated
GS07	455	Responsible Agency Code	ID	M	½	X
GS08	480	Version-Release-Industry ID Code	ID	M	01/12	004010

ST - Transaction Set Header

Description To indicate the beginning of a transaction set and to assign a control number.

Segment Details This is an ANSI mandatory segment and will be expected by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
ST01	143	Transaction Set ID	ID	M	03/03	997
ST02	329	Transaction Set Control Number	AN	M	04/09	System generated

AK1 - Functional Group Response Header

Description To indicate the beginning of a functional group.

Segment Details This is an ANSI mandatory segment and will be expected by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
AK101	479	Functional Identifier Code	ID	M	02/02	Functional ID found in the GS segment (GS01) in the functional group being acknowledged
AK102	028	Group Control Number	N0	M	01/09	Data interchange control number in GS of functional group being acknowledged

AK2 - Transaction Set Response Header

Description To start acknowledgment of a single transaction set.

Segment Details This is an ANSI optional segment but will be expected by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
AK201	143	Transaction Set Identifier Code	ID	M	03/03	850
AK202	329	Transaction Set Control Number	AN	M	04/09	Control number from 850 being acknowledged

AK5 - Transaction Set Response Trailer

Description To acknowledge acceptance or rejection and to report errors in a transaction set.

Segment Details This is an ANSI mandatory segment and will be expected by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
AK501	717	Transaction Set Acknowledgment	ID	M	01/01	Translator produced

AK9 - Functional Group Response Trailer

Description To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in the functional group.

Segment Details This is an ANSI mandatory segment and will be expected by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
AK901	715	Functional Group Acknowledgment Code	ID	M	01/01	Translator produced
AK902	097	Number of Transaction Sets Included	N0	M	01/06	Translator produced
AK903	123	Number of Received Transaction Sets	N0	M	01/06	Translator produced
AK904	002	Number of Accepted Transaction Sets	N0	M	01/06	Translator produced

SE - Transaction Set Trailer

Description To indicate the end of a transaction set and to provide the count of the transmitted segments including the ST and SE segments.

Segment Details This is an ANSI mandatory segment and will be used by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
SE01	096	Number of Includes Segments	N0	M	01/10	Total number of segments within a transaction including ST and SE segments
SE02	329	Transaction Set Control Number	AN	M	04/09	Will be the same as ST02

GE - Functional Group Trailer

Description To indicate the end of a functional group and to provide control information.

Segment Details This is an ANSI mandatory segment and will be generated by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
GE01	097	Number of Included Transaction Sets	N0	M	01/06	Total number of ST segments
GE02	028	Data Interchange Control Number	N0	M	01/09	Will be the same as GS06

IEA - Interchange Control Trailer

Description To define the end of one or more functional groups and interchange-related control segments.

Segment Details This is an ANSI mandatory segment and will be generated by Brooks.

Ele. Pos.	Ele. ID	Element Name	Type	Req.	Length	Value or Usage
IEA01	I16	Number of Included Groups	N0	M	01/05	Total number of GS segments
IEA02	I12	Interchange Control Number	N0	M	09/09	Will be the same as ISA13

Test Appointment Form

*Please complete this form and fax to **IBM Global Services** after scheduling test date.*

IBM Global Services fax number: (813) 878-5298

Brooks Supplier:

Test Date:

Test Contact:

Contact Phone No.:

Contact Fax No.:

Value Added Network (VAN):

Signature:
