

# Patterson Dental Company Guidelines and Capabilities

For .....

**Electronic  
Data  
Interchange**

**With**

**Trading Partners**

**Transaction Set**

**810 Version 4010**

**Simple Invoice and Credit memo  
Received by Patterson Dental**

**Basic Segment and Element Definitions**

<b>Mandatory</b>	<b>Required by ANSI X12 standards</b>
<b>Required</b>	<b>Required by Patterson Dental, if data exists as part of trading partner's products and/or business activity</b>
<b>Optional</b>	<b>Data sent at sender's option</b>

## **Standards Comment -**

The values in the Max Use and Max Loops columns reflect Patterson Dental's usage. These values comply with ASC X12 standards.

Requirement designator (REQ/DES) - Reflects the ASC X12 standards unless further restricted by Patterson standards.

**TRANSACTION: 810 – Invoice**

ANSI VERSION : 004010

**SEGMENT SEQUENCE CHART**

PAGE NO.	SEQ. NO.	SEG. ID.	REQ. DES.	SEGMENT DESCRIPTION	MAX USE	MAX LOOPS	LOOP ID
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**Table 1 - Header Area**

3	010	ST	M	Transaction set header	1		
4	020	BIG	M	Beginning segment for invoices	1		
5	030	NTE	O	Note / special instructions	1	2	
6	040	CUR	O	Currency	1		
7	050	REF	R	Reference identification	1		
8	060	N1	R	Name	>1	200	N1
9	070	N3	R	Address information	>1		N1
10	080	N4	R	Geographic location	>1		N1
11	090	ITD	R	Terms of sale	1	1	N1
12	100	FOB	R	FOB related information	1		N1
13	110	PID	R	Product / item description	>1	200	N1

**Table 2 - Detail Area**

14	010	IT1	R	Baseline item data	2	200000	IT1
16	020	PID	O	Product/item description	1	1000	PID
17	030	REF	R	Reference identification	1		PID

**Table 3 - Summary Area**

18	010	TDS	M	Total monetary values summary	1		
19	020	CAD	R	Carrier detail	1		
20	030	SAC	R	Service, allowance, or charge information	1	25	SAC
21	040	CTT	M	Transaction totals	1	1	

22	050	SE	M	Transaction set trailer	1	1	
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TRANSACTION :810

SEGMENT :ST – Transaction Set Header

LEVEL :Header

MAX. USAGE :Mandatory – 1

LOOPS :None

PURPOSE :The first segment of each transaction set containing the transaction set identifier and control numbers.

ELEMENT ID	ELEMENT NUMBER	NAME	REQ. DES./ TYPE/ LENGTH	ANSI/PATTERSON ATTRIBUTES/ COMMENTS
ST01	143	Transaction Set ID Code	M ID 03/03	'810'
		850 Purchase Order		
ST02	329	Transaction Set Control Number	M AN 04/09	A unique number to identify transaction set sequence within a functional group

Segment example:

ST\*810\*000001590^

TRANSACTION :810

SEGMENT :BIG - Beginning Segment for Invoice

LEVEL :Header

MAX. USAGE :Mandatory - 1

LOOPS :None

PURPOSE :To indicate the beginning of the invoice transaction set and to transmit identifying numbers and dates.

ELEMENT ID	ELEMENT NUMBER	NAME	REQ. DES./ TYPE/ LENGTH	ANSI/PATTERSON ATTRIBUTES/ COMMENTS
BIG01	373	Date	M DT 08/08	Invoice date
		CCYYMMDD		
BIG02	76	Invoice number	M AN 01/20	ID number assigned by issuer
BIG03	373	Purchase order date	M DT 08/08	
		CCYYMMDD		
BIG04	324	Purchase order	M AN 01/22	Sent in Patterson's order. Do not alter.
BIG07	640	Transaction type code	M ID 02/02	Use upper case
		'CR' - Credit memo 'PR' - Production invoice		

Segment example:

BIG\*20030624\*3694895\*20030624\*C57083588\*\*\*PR^

TRANSACTION :810

SEGMENT :NTE - Note / Special Instruction

LEVEL :Header

MAX. USAGE :Required – 2

LOOPS :None

PURPOSE :To transmit information in a free-form format, if necessary, for comment or special instruction.

<b>ELEMENT ID</b>	<b>ELEMENT NUMBER</b>	<b>NAME</b>	<b>REQ. DES./ TYPE/ LENGTH</b>	<b>ANSI/PATTERSON ATTRIBUTES/ COMMENTS</b>
NTE02	352	Description	M ID 01/80	Two lines available

Segment example:

NTE\*\*SHORT SHIPMENT^

TRANSACTION :810  
 SEGMENT :CUR - Currency  
 LEVEL :Header  
 MAX. USAGE :Required - 1  
 LOOPS :None  
 PURPOSE :To specify the currency used in a transaction.

ELEMENT ID	ELEMENT NUMBER	NAME	REQ. DES./ TYPE/ LENGTH	ANSI/PATTERSON ATTRIBUTES/ COMMENTS
CUR01	98	Entity identifier code	M ID 02/03	
		'CY' - Currency		
CUR02	100	Currency code	O ID 03/03	Use upper case
		'USD' - US dollars 'CAD' - Canadian dollars		Absence of the indicator assumes that transaction is in US dollars

Segment example:

CUR\*CY\*USD^

TRANSACTION :810  
 SEGMENT :REF - Reference Identification  
 LEVEL :Header  
 MAX USAGE :Required  
 LOOPS :None  
 PURPOSE :To specify identifying information

<b>ELEMENT ID</b>	<b>ELEMENT NUMBER</b>	<b>NAME</b>	<b>REQ. DES./ TYPE/ LENGTH</b>	<b>ANSI/PATTERSON ATTRIBUTES/ COMMENTS</b>
REF01	128	Reference number qualifier	M ID 02/03	
		'OR' - Order number		
REF03	352	Reference number	R AN 01/80	Vendor's internal order tracking number

Segment example:

REF\*OR\*1295728^

TRANSACTION :810  
 SEGMENT :N1 - Name  
 LEVEL :Header  
 MAX. USAGE :Required – Multiple  
 LOOPS :N1 - Repeat  
 PURPOSE :Name

ELEMENT ID	ELEMENT NUMBER	NAME	REQ. DES./ TYPE/ LENGTH	ANSI/PATTERSON ATTRIBUTES/ COMMENTS
N101	98	Entity identifier code	M ID 2/2	
		'BT' - Bill-to 'ST' - Ship-to 'RE' - Remit-to		
N102	93	Name	R AN 1/60	Remit to name to be applied to printed invoice.
		For 'BT' name - 'Patterson Dental Co.' For 'ST' - Patterson branch or drop shipment name. For 'RE' - Supplier's formal name		
N103	66	Identification code qualifier	R AN 2/2	'BT' loop only If either N103 or N104 is present, then the other is required.
		'92' - Buyer assigned		
N104	67	Identification code	R AN 80	Bill-to facility code 'BT' loop only. Send 3-digit code. See branch code list.

Segment example:

N1\*BT\*PATTERSON DENTAL CO\*92\*588^  
 N1\*ST\*PATTERSON DENTAL/FT WORTH^  
 N1\*RE\*<your company name>^



TRANSACTION :810

SEGMENT :N3 – Address Information

LEVEL :Header

MAX. USAGE :Required - Ship-to loop

LOOPS :N1 Repeat: 1

PURPOSE :To specify the address of the named party. Only ship-to address information used.

<b>ELEMENT ID</b>	<b>ELEMENT NUMBER</b>	<b>NAME</b>	<b>REQ. DES./ TYPE/ LENGTH</b>	<b>ANSI/PATTERSON ATTRIBUTES/ COMMENTS</b>
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N301	166	Address information	R AN 01/55	
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Segment example:

N3\*2201 EAGLE PARKWAY^ (Ship-to loop)

TRANSACTION :810

SEGMENT :N4 - Geographic Information

LEVEL :Header

MAX. USAGE :Required – Ship-to loop

LOOPS :None

PURPOSE :To specify the geographic place of the named party. Only ship-to address information used.

<b>ELEMENT ID</b>	<b>ELEMENT NUMBER</b>	<b>NAME</b>	<b>REQ. DES./ TYPE/ LENGTH</b>	<b>ANSI/PATTERSON ATTRIBUTES/ COMMENTS</b>
N401	19	City Name	R AN 02/30	
N402	156	State / Province	R AN 02/02	
N403	116	Postal code	R AN 05/15	
N404	26	Country code	O ID 02/03	
		USA – United States CAN – Canadian		

Segment example:

N4\*FT WORTH\*TX\*76177^ (Ship-to loop)

TRANSACTION :810  
 SEGMENT :ITD - Terms of Sale  
 LEVEL :Header  
 MAX. USAGE :Required – 1  
 LOOPS :None  
 PURPOSE :To specify terms of sale.

ELEMENT ID	ELEMENT NUMBER	NAME	REQ. DES./ TYPE/ LENGTH	ANSI/PATTERSON ATTRIBUTES/ COMMENTS
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ITD01	336	Terms type code	R AN 02/02	
		'05' – Discount not applicable '08' - Basic discount offered		
ITD02	333	Terms basis date code	R ID 01/01	
		'3' - Invoice date		
ITD03	338	Terms discount percent	R ID	Present as whole number
		'1' = 1% '2.5' = 2.5%		
ITD04	370	Terms discount due date	R DT 08/08	Send if applicable Report either ITD04 or ITD05
ITD05	351	Terms discount days due	R N 03/03	Send if applicable Report either ITD04 or ITD05
ITD06	446	Terms net due date	R DT 08/08	Report either ITD06 or ITD07
		CCYYMMDD		
ITD07	386	Terms net days	R N 01/03	Report either ITD06 or ITD07
		'30' for 'Net 30 days'		
ITD12	362	Description	R AN 01/80	Description is applied to the printed invoice at the branch
		Exa 'Net 30' Exa '2% 10 / Net 30'		

Segment example:

ITD~08~3~1~20030703~10~20030723~30~~~~~1% 10 DAYS, NET 30^

ITD\*05\*3\*\*\*\*\*20030719\*30\*\*\*\*\*NET 30~

TRANSACTION :810  
 SEGMENT :FOB – F.O.B Related Instructions  
 LEVEL :Header  
 MAX. USAGE :Required – 200  
 LOOPS :Maximum 200, 1 currently  
 PURPOSE :To specify transportation instructions relating to shipment.

<b>ELEMENT ID</b>	<b>ELEMENT NUMBER</b>	<b>NAME</b>	<b>REQ. DES./ TYPE/ LENGTH</b>	<b>ANSI/PATTERSON ATTRIBUTES/ COMMENTS</b>
FOB01	146	Shipment method of payment	M ID 2/2	
		'CC' – Collect 'PP' – Prepaid		Patterson pays freight Supplier pays freight

Segment example:

FOB\*CC^

TRANSACTION :810

SEGMENT :PID - Product / Item Description

LEVEL :Header

MAX. USAGE :Required – 200

LOOPS :Maximum 200, 1 currently

PURPOSE :To describe or list carrier tracking or pro numbers pertinent to the header-level CAD segment.  
Multiple entries are possible

<b>ELEMENT ID</b>	<b>ELEMENT NUMBER</b>	<b>NAME</b>	<b>REQ. DES./ TYPE/ LENGTH</b>	<b>ANSI/PATTERSON ATTRIBUTES/ COMMENTS</b>
PID01	349	Item description code	O AN 01/20	
		'X' – Semi structured code and text		
PID03	559	Agency qualifier code	M R 01/15	
		'AB' – Assigned by buyer		
PID04	751	Product description code	M ID 02/02	
		'TG' - tracking number (UPS, FDX) 'CN' - Carrier pro number (Yellow Frt)		
PID05	352	Description	C R 01/17	List multiple numbers

TRANSACTION :810  
 SEGMENT :IT1 - Baseline Item Data  
 LEVEL :Detail  
 MAX. USAGE :Optional - 200000  
 LOOPS :Multiple  
 PURPOSE :To specify the basic and most frequently used line item data for the invoice.

<b>ELEMENT ID</b>	<b>ELEMENT NUMBER</b>	<b>NAME</b>	<b>REQ. DES./ TYPE/ LENGTH</b>	<b>ANSI/PATTERSON ATTRIBUTES/ COMMENTS</b>
IT102	358	Quantity invoiced	R R 01/10	Real number, no decimal
IT103	355	Unit of measure	R ID 02/02	User upper case
		BG Bag BO Bottle BT Belt BX Box CA Case CN Can CS Case CT Carton DR Drum DZ Dozen EA Each FT Foot GA Gallon IN Inch JR Jar KT Kit PK Package PR Pair PT Pint QT Quart QT Quart RL Roll S6 Set of 6 (teeth) S8 Set of 8 (teeth) TB Tube VL Vial		
IT104	212	Unit price	R N 01/17	Net unit price.
IT106	235	Product qualifier 'IN' - Buyer's item number	R ID 02/02	
IT107	234	Patterson's item ID	R AN 01/48	
IT108	235	Product qualifier 'MG' - Manufacturer's item number	R ID 02/02	
IT109	234	Supplier's item ID	R AN 01/48	

Segment example:

IT1~~4~EA~9.75~~IN~076305015~MG~00439^

TRANSACTION :810  
 SEGMENT :PID - Product/item description  
 LEVEL :Detail  
 MAX. USAGE :Required – 1  
 LOOPS :None  
 PURPOSE :To describe a product in free-form format.

<b>ELEMENT ID</b>	<b>ELEMENT NUMBER</b>	<b>NAME</b>	<b>REQ. DES./ TYPE/ LENGTH</b>	<b>ANSI/PATTERSON ATTRIBUTES/ COMMENTS</b>
PID01	349	Item description Type	M ID 01/01	
		'F' - Free form		
PID05	352	Product description	R AN 01/80	

Segment example:

PID~F~~~~Unisex White 80/20 Snap Front Lab Coat S ^



TRANSACTION :810

SEGMENT :REF - Reference Identification

LEVEL :Detail

MAX. USAGE :Required – Multiple

LOOPS :Multiple per IT1 entry

PURPOSE :To specify or list all serial numbers for the item described in the IT1 segment. Send all serial numbers for the item.

ELEMENT ID	ELEMENT NUMBER	NAME	REQ. DES./ TYPE/ LENGTH	ANSI/PATTERSON ATTRIBUTES/ COMMENTS
REF01	128	Reference ID qualifier	R AN 02/03	
		'SE' - serial number		
REF02	127	Reference identification	R AN 01/30	Required for all items with serial numbers. Preceed serial number with qualifier 'S/N'. One per record.
		'S/N' <serial number>		

Segment example:

REF\*SE\*\*S/N: 458242~

TRANSACTION :810  
 SEGMENT :TDS – Total Monetary Values Summary  
 LEVEL :Summary  
 MAX. USAGE :Required – 1  
 LOOPS :None  
 PURPOSE :To specify the total invoice discounts, credits, and amounts.

<b>ELEMENT ID</b>	<b>ELEMENT NUMBER</b>	<b>NAME</b>	<b>REQ. DES./ TYPE/ LENGTH</b>	<b>ANSI/PATTERSON ATTRIBUTES/ COMMENTS</b>
TDS01	361	Total monetary value summary	M P2 1/15	Implied decimal * Express credit memo net as negative number

Segment example:

TDS\*375000~

TRANSACTION :810  
 SEGMENT :CAD - Carrier Detail  
 LEVEL :Summary  
 MAX. USAGE :Required – 1  
 LOOPS :None  
 PURPOSE :To specify transportation details for the transaction.

ELEMENT ID	ELEMENT NUMBER	NAME	REQ. DES./ TYPE/ LENGTH	ANSI/PATTERSON ATTRIBUTES/ COMMENTS
CAD01	91	Transportation method / Type code	M ID 01/01	
		'M' - Motor		
CAD04	140	Standard carrier access code	M ID 02/04	
		'UPSN' - UPS 'YFSY' - Yellow freight company		
CAD07	128	Reference ID qualifier	O AN 02/03	Report bill-of-lading number only
		'BM' - Bill of lading number		
CAD08	127	Reference ID number	O AN 01/30	

Segment example:

CAD\*M\*\*\*UPSN~

TRANSACTION :810  
 SEGMENT :SAC - Service, Allowance, or Charge Information  
 LEVEL :Summary  
 MAX. USAGE :Required – Multiple  
 LOOPS :Multiple  
 PURPOSE :To specify a service, allowance, or charge.

ELEMENT ID	ELEMENT NUMBER	NAME	REQ. DES./ TYPE/ LENGTH	ANSI/PATTERSON ATTRIBUTES/ COMMENTS
SAC01	248	Allowance or charge indicator	M ID 01/01	
		'C' - Charge 'A' - Allowance		
SAC02	1300	Service, charge, or allowance code	R ID - 04/04	
		D240 - Freight D500 - Handling D360 - Goods and services tax H770 - State tax H700 - Local tax H850 - Province tax H860 - Service technician training F970 - Rebate D530 - Hazardous cargo charge F970 - Rebate C310 - Allocation G400 - Repair		
SAC05	610	Amount	R N2 01/09	Implied decimal
SAC12	331	Shipping method of handling	R AN 02/02	Report on each invoice. FOB01 may be used instead
		'PP' - Prepaid 'CC' - Collect		
SAC15	352	Description	R AN 01/80	

Segment example:

SAC\*C\*D500\*\*\*11715\*\*\*\*\*RESTOCKING FEE ^

SAC\*C\*D240\*\*\*6965\*\*\*\*\*FREIGHT^

TRANSACTION :810  
 SEGMENT :CTT - Transaction totals  
 LEVEL :Summary  
 MAX. USAGE :Required – 1  
 LOOPS :None  
 PURPOSE :To transmit a hash total of items in the transaction set.

<b>ELEMENT ID</b>	<b>ELEMENT NUMBER</b>	<b>NAME</b>	<b>REQ. DES./ TYPE/ LENGTH</b>	<b>ANSI/PATTERSON ATTRIBUTES/ COMMENTS</b>
CTT01	354	Number of line items	M N0 1/6	

Segment example:

CTT\*1^

TRANSACTION :810

SEGMENT :SE - Transaction set trailer

LEVEL :Summary

MAX. USAGE :Required – 1

LOOPS :None

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).

<b>ELEMENT ID</b>	<b>ELEMENT NUMBER</b>	<b>NAME</b>	<b>REQ. DES./ TYPE/ LENGTH</b>	<b>ANSI/PATTERSON ATTRIBUTES/ COMMENTS</b>
SE01	96	Number of included segments	M N0 01/10	
SE02	329	Transaction set control number	M AN 04/09	

Segment example:

SE\*16\*000001590^