



Invoice

005010 X12

Functional Group=IN

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0200	BIG	Beginning Segment for Invoice	M	1			Must use
0500	REF	Reference Information	O	12			Used
LOOP ID - N1					200		
0700	N1	Party Identification	O	1			Used
0900	N3	Party Location	O	2			Used
1000	N4	Geographic Location	O	1			Used
1300	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used
1400	DTM	Date/Time Reference	O	10			Used
1500	FOB	F.O.B. Related Instructions	O	1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - IT1					200000		
0100	IT1	Baseline Item Data (Invoice)	O	1			Used
0300	IT3	Additional Item Data	O	5			Used
0400	TXI	Tax Information	O	>1			Used
LOOP ID - PID					1000		
0600	PID	Product/Item Description	O	1			Used
1000	PO4	Item Physical Details	O	1			Used
1200	REF	Reference Information	O	>1			Used
LOOP ID - SAC					>1		
1800	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	TDS	Total Monetary Value Summary	M	1			Must use
0200	TXI	Tax Information	O	>1			Used
LOOP ID - SAC					>1		
0400	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID - ISS					>1		
0600	ISS	Invoice Shipment Summary	O	1			Used
0700	CTT	Transaction Totals	O	1		N3/0700	Used

BIG Beginning Segment for Invoice

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

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>
BIG01	373	Date = Invoice Date	M	DT	8/8	Must use
BIG02	76	Invoice Number	M	AN	1/22	Must use
BIG03	373	Date = Purchase Order Date	O	DT	8/8	Must use
BIG04	324	Purchase Order Number	O	AN	1/22	Must use
		5 digit po number				

REF Reference Information

Pos: 0500	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

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>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use
REF02	127	Reference Identification	X	AN	1/50	Used

N1 Party Identification

Pos: 0700	Max: 1
Heading - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

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
		Ralphs must have the vendor remittance information.				
		<u>Code</u> <u>Name</u>				
		BT Bill-to-Party				
		RI Remit To				
		SF Ship From				
		ST Ship To				
N102	93	Name	X	AN	1/60	Must use
N103	66	Identification Code Qualifier	X	ID	1/2	Must use
		<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	X	AN	2/80	Used
N105	706	Entity Relationship Code	O	ID	2/2	Used
		All valid standard codes are used.				
N106	98	Entity Identifier Code	O	ID	2/3	Used
		All valid standard codes are used.				

N3 Party Location

Pos: 0900	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

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>
N301	166	Address Information Ralphs must have the vendor remittances information.	M	AN	1/55	Must use
N302	166	Address Information When sending the N101 = RI, must send N301.	O	AN	1/55	Used

N4 Geographic Location

Pos: 1000	Max: 1
Heading - Optional	
Loop: N1	Elements: 3

User Option (Usage): Used

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>
N401	19	City Name Ralphs must have vendor remittance information.	O	AN	2/30	Must use
N402	156	State or Province Code	X	ID	2/2	Must use
N403	116	Postal Code When sending N101 = RI, must send N401, N402 & N403.	O	ID	3/15	Must use

ITD Terms of Sale/Deferred Terms of Sale

Pos: 1300	Max: >1
Heading - Optional	
Loop: N/A	Elements: 12

User Option (Usage): Used

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>
ITD01	336	Terms Type Code ITD must be sent in header level	O	ID	2/2	Used
ITD02	333	Terms Basis Date Code	O	ID	1/2	Used
ITD03	338	Terms Discount Percent	O	R	1/6	Must use
ITD04	370	Terms Discount Due Date	X	DT	8/8	Must use
ITD05	351	Terms Discount Days Due	X	N0	1/3	Must use
ITD06	446	Terms Net Due Date	O	DT	8/8	Must use
ITD07	386	Terms Net Days	O	N0	1/3	Must use
ITD08	362	Terms Discount Amount	O	N2	1/10	Must use
ITD09	388	Terms Deferred Due Date	O	DT	8/8	Used
ITD10	389	Deferred Amount Due	X	N2	1/10	Used
ITD11	342	Percent of Invoice Payable	X	R	1/5	Used
ITD12	352	Description	O	AN	1/80	Used

DTM Date/Time Reference

Pos: 1400	Max: 10
Heading - Optional	
Loop: N/A	Elements: 6

User Option (Usage): Used

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
DTM02	373	Date	X	DT	8/8	Must use
DTM03	337	Time	X	TM	4/8	Used
DTM04	623	Time Code	O	ID	2/2	Used
DTM05	1250	Date Time Period Format Qualifier	X	ID	2/3	Used
DTM06	1251	Date Time Period	X	AN	1/35	Used

FOB F.O.B. Related Instructions

Pos: 1500	Max: 1
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

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>
FOB01	146	Shipment Method of Payment FOB must be sent in Header level	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		CC Collect				
		PB Customer Pickup/Backhaul				
		PP Prepaid (by Seller)				
FOB02	309	Location Qualifier	X	ID	1/2	Must use
		<u>Code</u> <u>Name</u>				
		DE Destination (Shipping)				
		OR Origin (Shipping Point)				
		PL Plant				
FOB03	352	Description	O	AN	1/80	Used

IT1 Baseline Item Data (Invoice)

Pos: 0100	Max: 1
Detail - Optional	
Loop: IT1	Elements: 7

User Option (Usage): Used

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>
IT102	358	Quantity Invoiced	X	R	1/15	Must Use
IT103	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use
IT104	212	Unit Price	X	R	1/17	Must use
IT106	235	Product/Service ID Qualifier	X	ID	2/2	Must Use
		<u>Code</u> <u>Name</u>				
		UA U.P.C Case Code (2-5-5 format)				
		UK GTIN 14-digit Data Structure				
IT107	234	Product/Service ID Contains a U.P.C Case Code if IT106 is UA. Contains a GTIN if IT106 is UK.	X	AN	1/48	Must use

IT3 Additional Item Data

Pos: 0300	Max: 5
Detail - Optional	
Loop: IT1	Elements: 2

User Option (Usage): Used

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>U</u>
<u>sage</u> IT301	382	Number of Units Shipped	X	R	1/10	
Used IT302	355	Unit or Basis for Measurement Code	X	ID	2/2	
Used						

IT302 is used when the unit or basis for measurement code shipped, differs from the unit or basis for measurement code invoice in IT103.

TXI Tax Information

Pos: 0400	Max: >1
Detail - Optional	
Loop: IT1	Elements: 4

User Option (Usage): Used

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>
TXI01	963	Tax Type Code	M	ID	2/2	Must use
TXI02	782	Monetary Amount	X	R	1/18	Used
TXI03	954	Percentage as Decimal	X	R	1/10	Used
TXI08	828	Dollar Basis For Percent	O	R	1/9	Used

PID Product/Item Description

Pos: 0600	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

User Option (Usage): Used

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
PID05	352	Description	X	AN	1/80	Must use

PO4 Item Physical Details

Pos: 1000	Max: 1
Detail - Optional	
Loop: IT1	Elements: 3

User Option (Usage): Used

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
PO402	357	Size	X	R	1/8	Used
PO403	355	Unit or Basis for Measurement Code	X	ID	2/2	Used

PO4 required information is not contained in the PID05.

REF Reference Information

Pos: 1200	Max: >1
Detail - Optional	
Loop: IT1	Elements: 2

User Option (Usage): Used

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>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use
REF02	127	Reference Identification	X	AN	1/50	Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 1800	Max: 1
Detail - Optional	
Loop: SAC	Elements: 10

User Option (Usage): Used

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	M	ID	1/1	Must use

		<u>Code</u>	<u>Name</u>				
		A	Allowance				
		C	Charge				
SAC02	1300	Service, Promotion, Allowance, or Charge Code		X	ID	4/4	Must use
		<u>Code</u>	<u>Name</u>				
		B010	Cents Off				
		D200	Freight Charges to Destination				
		D280	Full Service				
		F340	Pick/Up				
		F910	Quantity Discount				
		H560	Swell				
		H625	Beverage Tax				
		H850	Tax				
		I170	Trade Discount				
SAC05	610	Amount		O	N2	1/15	Used
SAC06	378	Allowance/Charge Percent Qualifier		X	ID	1/1	Used
SAC07	332	Percent, Decimal Format		X	R	1/6	Used
SAC08	118	Rate = if an allowance the rate should be negative (-).		O	R	1/9	Used
SAC09	355	Unit or Basis for Measurement Code		X	ID	2/2	Used
SAC10	380	Quantity		X	R	1/15	Used
		If SAC01 is 'A' or 'C' then at least one of the SAC05, SAC06 & SAC07 or SAC08 is required. SAC05 must have a minus sign if SAC01 contains an 'A' allowance. If SAC07 is present the SAC06, SAC09 and SAC10 are also required. SAC09 will need to be 'DO' for Dollar Basis Amount.					
SAC12	331	Allowance or Charge Method of Handling Code		O	ID	2/2	Used
		<u>Code</u>	<u>Name</u>				
		02	Off Invoice				
		06	Charge to be Paid by Customer				
SAC15	352	Description		X	AN	1/80	Used

TDS Total Monetary Value Summary

Pos: 0100 Max: 1
 Summary - Mandatory
 Loop: N/A Elements: 3

User Option (Usage): Must use

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
		Net Amount				
TDS02	610	Amount	O	N2	1/15	Must use
TDS03	610	Amount	O	N2	1/15	Must use
		Prefer the elements TDS02 and TDS03 be sent				

TXI Tax Information

Pos: 0200	Max: >1
Summary - Optional	
Loop: N/A	Elements: 4

User Option (Usage): Used

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>
TXI01	963	Tax Type Code	M	ID	2/2	Must use
TXI02	782	Monetary Amount	X	R	1/18	Used
TXI03	954	Percentage as Decimal	X	R	1/10	Used
TXI08	828	Dollar Basis For Percent	O	R	1/9	Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 0400	Max: 1
Summary - Optional	
Loop: SAC	Elements: 10

User Option (Usage): Used

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	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u>				
		A Allowance				
		C Charge				
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Must use
SAC05	610	Amount	O	N2	1/15	Used
SAC06	378	Allowance/Charge Percent Qualifier	X	ID	1/1	Used
SAC07	332	Percent, Decimal Format	X	R	1/6	Used
SAC08	118	Rate	O	R	1/9	Used
SAC09	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
SAC10	380	Quantity	X	R	1/15	Used
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		02 Off Invoice				
		6 Charge to be Paid by Customer				
		To transmit specific allowances or charges for the 'Total Invoice' SAC05 must be a minus sign if SAC01 contains an 'A' allowance. If SAC01 is 'A' or 'C' then at least one of the SAC05, SAC06 & SAC07 or SAC08 is required. If SAC07 is present then SAC06, SAC09 and SAC10 are required also. SAC09 will need to be 'DO' Dollar Basis Amount..				
SAC15	352	Description	X	AN	1/80	Used

ISS Invoice Shipment Summary

Pos: 0600	Max: 1
Summary - Optional	
Loop: ISS	Elements: 6

User Option (Usage): Used

Note: - The ISS01 & ISS02 are paired elements, the vendor must send both same is true for the ISS03 & ISS04 and the ISS05 & ISS06 they are paired elements as well. Standards disallow one without the other. Kroger does not need the ISS segment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISS01	382	Number of Units Shipped	X	R	1/10	Used
ISS02	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
ISS03	81	Weight	X	R	1/10	Used
ISS04	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
ISS05	183	Volume	X	R	1/8	Used
ISS06	355	Unit or Basis for Measurement Code	X	ID	2/2	Used

CTT Transaction Totals

Pos: 0700	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	U
CTT01	354	Number of Line Items	M	NO	1/6	Must use

DATA EXAMPLE

SAMPLE with ALL ITEMS Converted to GTINs

BIG*20040206*0090177071*20050203*73576~
 REF*ZZ*1234~
 N1*BT*DILLON HUTCHINSON*9*0069428820000~
 N3*2700 E. 4TH STREET~
 N4*HUTCHINSON*KS*67501~
 N1*ST*DILLON HUTCHINSON*9*0069428820002~
 N3*2700 E. 4TH STREET~
 N4*HUTCHINSON*KS*67501~
 N1*VN*MY FOOD*9*1234567890000~
 N3*UNIT 123 P.O BOX 1234~
 N4*DALLAS*OR*972108~
 N1*RI*MY FOOD*9*1234567890000~
 N3*P.O BOX 1234~
 N4*TIDBIT*OR*97210~
 ITD*01*3*2*20040216*10*20050221*15*2167~
 DTM*011*20050206~
 FOB*PP*OR~
 IT1*1*1920*CA*15.97**UK*10021000340799~
 PID*F***91547 101 DALMATIAN TRAINING PADS~
 IT1*2*16*CA*17.88**UK*00021000778699~
 PID*F***70253 STAIN & ODOR REMOVER 64 OZ REFILL 4 X 64~
 IT1*3*168*CA*9.84**UK*20043000180629~
 PID*F***70432-3P 32OZ PET S&O IN TWIST GRIP BOTTLE~
 TDS*3260160*3260160*3260160~
 SAC*A*I410***-2211*****02***SPOILS %~
 ISS*105*CA*1039.5*LB*100.5*CI~
 CTT*3~

SAMPLE with NO ITEMS Converted to GTINs

IT1*1*1920*CA*15.97**UA*002100034079~
PID*F****91547 101 DALMATIAN TRAINING PADS~
IT1*2*16*CA*17.88**UA*002100077869~
PID*F****70253 STAIN & ODOR REMOVER 64 OZ REFILL 4 X 64~
IT1*3*168*CA*9.84**UA*004300018062~
PID*F****70432-3P 32OZ PET S&O IN TWIST GRIP BOTTLE~

SAMPLE with SOME ITEMS Converted to GTINs

Manufacturer ID 21000 has been converted
Manufacturer ID 43000 has NOT been converted

IT1*1*1920*CA*15.97**UK*10021000340799~
PID*F****91547 101 DALMATIAN TRAINING PADS~
IT1*2*16*CA*17.88**UK*00021000778699~
PID*F****70253 STAIN & ODOR REMOVER 64 OZ REFILL 4 X 64~
IT1*3*168*CA*9.84**UA*004300018062~
PID*F****70432-3P 32OZ PET S&O IN TWIST GRIP BOTTLE~