

CONTAX

Shipping Technology

ANSI X12 004010 · EDI IMPLEMENTATION GUIDE

CONTAX EDI 210 - Motor Carrier Freight Details and Invoice Implementation Guide

Transaction Set 210 — Motor Carrier Freight Details and Invoice

Version 3.1

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Standard ANSI ASC X12, Version/Release 004010

Prepared by CONTAX, Inc.

Document Metadata

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Purpose and Scope

This document defines the CONTAX implementation of the Motor Carrier Freight Details and Invoice Transaction Set (210) under ANSI X12 Version 4010. It is intended for developers at transportation carriers configuring EDI feeds to CONTAX. The 210 transaction set is used to transmit freight charges and invoice detail from a motor carrier to CONTAX. It supports both invoice-to-payment workflows and informational charge detail.

This edition documents the **motor-carrier LTL/TL freight-invoice profile**: the transaction header, party identification loop, line-item detail loop, and invoice summary. The 210 standard also carries several optional extensions (equipment/seals, stop-off detail, and small-package/parcel carton detail). CONTAX does not implement the equipment/seals or stop-off extensions. The small-package carton detail ([CD3](#)) is the one exception: it is documented as a normal, optional segment so that carriers running a parcel division have an accurate reference.

Key Implementation Conventions

- Req. Des. M = Mandatory; O = Optional; X = Conditional (see syntax notes); N/U = Not Used. In X12 004010 the syntax designator on a data element is either Mandatory, Optional, or Conditional (relational); Conditional is rendered here as **X**.
- Dates use CCYYMMDD format unless otherwise noted. Times use HHMM to HHMMSSDD.
- ISA06 and ISA08 must be exactly 15 characters, padded with trailing spaces.
- ISA13 (Interchange Control Number) must be 9 digits, zero-padded, and must match IEA02 exactly.
- The segment terminator is '~'; the element separator is '*'; the subelement separator is '>'.
- GS06 must match GE02. ST02 must match SE02.

Developer Validation Checklist

- ☐ Validate ISA/IEA control consistency: **ISA13** must be 9 digits, zero-padded, and must match **IEA02** exactly when specified.
- ☐ Validate GS/GE control consistency: **GS06** must match **GE02** when the group trailer is present.
- ☐ Validate ST/SE control consistency: **ST02** must match **SE02**.
- ☐ Validate date and time formats using the transaction rules: **CCYYMMDD** for dates and the allowed **HHMM** / **HHMMSS** variants for times.
- ☐ Use **GS01 = IM** for motor carrier freight details and invoice functional groups.
- ☐ Check invoice identity and charge details in **B3**, **L1**, and **L3**; reject or route to review when mandatory invoice/total controls are missing.
- ☐ Confirm every **N1** party loop that sends **N103** also sends **N104**, and vice versa (paired conditional).
- ☐ Confirm each detail line opens with **LX** and that any **L1** charge lines satisfy the "at least one of L104/L105/L106" rule.

Transaction Set Map

The following map lists every segment CONTAX implements in this profile, in transmission order, with its true X12 004010 position number. Each mapped segment has a matching detail section below; conversely, every detail section corresponds to a mapped row.

Table M.1 — Header

Pos.	Seg.	Name	Req.	Max Use	Loop Repeat	Notes
010	ST	Transaction Set Header	M	1		Mandatory
020	B3	Beginning Segment for Carrier's Invoice	M	1		Mandatory
030	C2	Bank ID	O	1		Electronic-payment routing data
040	C3	Currency	O	1		
050	ITD	Terms of Sale/Deferred Terms of Sale	O	1		Invoice payment terms
060	N9	Reference Identification	O	300		See N9 section
070	G62	Date/Time	O	6		
080	R3	Route Information - Motor	O	12		
090	H3	Special Handling Instructions	O	6		
100	K1	Remarks	O	10		
110	N1	Name	M	1	10	Loop 0100 — party identification
120	N2	Additional Name Information	O	1	(Loop 0100)	
130	N3	Address Information	O	2	(Loop 0100)	
140	N4	Geographic Location	O	1	(Loop 0100)	
150	N9	Reference Identification	O	5	(Loop 0100)	See N9 section

Table M.2 — Detail

Pos.	Seg.	Name	Req.	Max Use	Loop Repeat	Notes
120	LX	Assigned Number	M	1	9999	Loop 0400 — line-item detail
130	N9	Reference Identification	O	5	(Loop 0400)	See N9 section
137	POD	Proof of Delivery	O	1	(Loop 0400)	
140	L5	Description, Marks and Numbers	O	30	(Loop 0400)	
150	H1	Hazardous Material	O	3	(Loop 0400)	
160	H2	Additional Hazardous Material Description	O	2	(Loop 0400)	
170	L0	Line Item — Quantity and Weight	O	10	(Loop 0400)	
180	L1	Rate and Charges	O	10	(Loop 0400)	
190	L4	Measurement	O	10	(Loop 0400)	Physical dimensions
200	L7	Tariff Reference	O	10	(Loop 0400)	

Optional parcel extension carried inside Loop 0400 (see **Detail — Small-Package Carton Extension (Optional)**):

Pos.	Seg.	Name	Req.	Max Use	Loop Repeat	Notes
240	N1	Name (Small-Package Consignee)	O	1	999999	Loop 0460 — optional; mandatory loop-trigger when used
300	CD3	Carton (Package) Detail	O	1	999999	Loop 0463 (nested in Loop 0460) — optional; mandatory loop-trigger when used

Table M.3 — Summary

Pos.	Seg.	Name	Req.	Max Use	Loop Repeat	Notes
010	L3	Total Weight and Charges	O	1		Send when totals are available
020	SE	Transaction Set Trailer	M	1		Mandatory

Envelope

ISA — Interchange Control Header

Envelope · Mandatory · Max Use: 1

TABLE ISA.1

Purpose	Starts and identifies an interchange of one or more functional groups.
Notes	ISA06 and ISA08 must be exactly 15 characters. ISA13 is 9 digits, zero-padded, and must match IEA02.

TABLE ISA.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
ISA01	I01	Authorization Information Qualifier	M ID 2/2	00 = No Authorization Information Present
ISA02	I02	Authorization Information	M AN 10/10	Exactly 10 chars; pad with trailing spaces
ISA03	I03	Security Information Qualifier	M ID 2/2	00 = No Security Information Present
ISA04	I04	Security Information	M AN 10/10	Exactly 10 chars; pad with trailing spaces
ISA05	I05	Interchange ID Qualifier (Sender)	M ID 2/2	Valid 4010 qualifier (e.g., ZZ, 01, 08, 12)
ISA06	I06	Interchange Sender ID	M AN 15/15	Exactly 15 chars — pad with trailing spaces
ISA07	I05	Interchange ID Qualifier (Receiver)	M ID 2/2	Valid 4010 qualifier
ISA08	I07	Interchange Receiver ID	M AN 15/15	Exactly 15 chars — pad with trailing spaces
ISA09	I08	Interchange Date	M DT 6/6	YYMMDD
ISA10	I09	Interchange Time	M TM 4/4	HHMM
ISA11	I10	Interchange Control Standards Identifier	M ID 1/1	U (fixed) = U.S. EDI Community (ASC X12, TDCC, UCS)
ISA12	I11	Interchange Control Version Number	M ID 5/5	00401 (fixed) = Version 4010
ISA13	I12	Interchange Control Number	M N0 9/9	9 digits zero-padded. Must match IEA02.
ISA14	I13	Acknowledgment Requested	M ID 1/1	0 = No Acknowledgment Requested; 1 = Requested
ISA15	I14	Test Indicator	M ID 1/1	P = Production Data; T = Test Data
ISA16	I15	Subelement Separator	M AN 1/1	Must differ from element separator. '~' reserved for segment terminator.

GS — Functional Group Header

Envelope · Mandatory · Max Use: 1

TABLE GS.1

Purpose	Indicates the beginning of a functional group and provides control information.
Semantic Note 1	GS04 is the group date.
Semantic Note 2	GS05 is the group time.
Semantic Note 3	GS06 must match GE02.

TABLE GS.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
GS01	479	Functional Identifier Code	M ID 2/2	IM = Motor Carrier Freight Details and Invoice (210, 980)
GS02	142	Application Sender's Code	M AN 2/15	Trading partner sender ID
GS03	124	Application Receiver's Code	M AN 2/15	Trading partner receiver ID
GS04	373	Date	M DT 8/8	CCYYMMDD
GS05	337	Time	M TM 4/6	HHMM, HHMMSS, HHMMSSD, or HHMMSSDD
GS06	28	Group Control Number	M N0 1/9	Must match GE02
GS07	455	Responsible Agency Code	M ID 1/2	X = ASC X12; T = TDCC
GS08	480	Version/Release/Industry Identifier Code	M AN 1/12	004010

Header

ST — Transaction Set Header

Header · Position 010 · Mandatory · Max Use: 1

TABLE ST.1

Purpose	Indicates the start of a transaction set and assigns a control number.
Semantic Note 1	ST01 is used by translation routines to select the appropriate transaction set definition.
Notes	ST02 must match SE02.

TABLE ST.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
ST01	143	Transaction Set Identifier Code	M ID 3/3	210 = Motor Carrier Freight Details and Invoice
ST02	329	Transaction Set Control Number	M AN 4/9	Unique within the functional group. Must match SE02.

B3 — Beginning Segment for Carrier's Invoice

Header · Position 020 · Mandatory · Max Use: 1

TABLE B3.1

Purpose	Transmits basic data relating to the carrier's invoice.
Syntax Note 1	If either B309 or B310 is present, then the other is required.
Semantic Note 1	B306 is the billing date.
Semantic Note 2	On collect freight bills B309 = actual delivery date. When invoiced prior to delivery, B309 = estimated delivery date.
Semantic Note 3	If B314 is used, B304 indicates the party or parties responsible for payment of the transportation terms in B314.

TABLE B3.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
B301	147	Shipment Qualifier	O ID 1/1	Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time (e.g., B = Bill of Lading for Individual Shipment; C = Consolidated Shipment; M = Master Bill of Lading). Not used in this implementation.
B302	76	Invoice Number	M AN 1/22	Identifying number assigned by issuer
B303	145	Shipment Identification Number	O AN 1/30	Assigned by shipper. No blanks or special characters.
B304	146	Shipment Method of Payment	M ID 2/2	PP = Prepaid (by Seller); CC = Collect; DE = Per Contract; MX = Mixed; TP = Third Party
B305	188	Weight Unit Code	O ID 1/1	L = Pounds
B306	373	Date (Billing Date)	M DT 8/8	CCYYMMDD
B307	193	Net Amount Due	M N2 1/12	Total charges in the currency specified
B308	202	Correction Indicator	O ID 2/2	Code indicating the transaction set corrects previous information. AR = Adding Revenue; BE = Billing Error; BD = Balance Due Billing
B309	32	Delivery Date	X DT 8/8	CCYYMMDD. Required if B310 present.
B310	374	Date/Time Qualifier	X ID 3/3	035 = Delivered; 140 = Actual. Required if B309 present.
B311	140	Standard Carrier Alpha Code (SCAC)	M ID 2/4	Carrier's SCAC code
B312	373	Date (Pick-up Date)	O DT 8/8	CCYYMMDD
B313	375	Tariff Service Code	O ID 2/2	Code specifying the type of service for rating purposes

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
B314	335	Transportation Terms Code	O ID 3/3	Incoterms code applicable to the shipment transportation responsibility. If used, B304 indicates the party responsible for payment.

C2 — Bank ID

Header · Position 030 · Optional · Max Use: 1

TABLE C2.1

Purpose	Specifies data required for electronic payment.
Semantic Note 1	C207 is the effective payment date.

TABLE C2.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
C201	8	Bank Client Code	M ID 1/1	Code identifying payee or payer
C202	66	Identification Code Qualifier	M ID 1/2	Code designating the system/method of code structure for the Identification Code (67)
C203	67	Identification Code	M AN 2/80	Code identifying a party or other code
C204	20	Client Bank Number	O AN 3/9	Federal Reserve routing code
C205	7	Bank Account Number	O AN 6/17	ID number assigned by bank to its client
C206	107	Payment Method Code	O ID 1/2	Code identifying type of payment procedures
C207	373	Date	O DT 8/8	Effective payment date, CCYYMMDD

C3 — Currency

Header · Position 040 · Optional · Max Use: 1

TABLE C3.1

Purpose	Specifies the currency used in the transaction set.
Semantic Note 1	C301 is the billing currency.
Semantic Note 2	C303 is the payment currency.
Semantic Note 3	C304 is the rated currency.

TABLE C3.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
C301	100	Currency Code	M ID 3/3	ISO 4217 code (e.g., USD, CAD, EUR)
C302	280	Exchange Rate	O R 4/10	Multiplier conversion factor between currencies
C303	100	Currency Code	O ID 3/3	Payment currency code

ITD — Terms of Sale/Deferred Terms of Sale

Header · Position 050 · Optional · Max Use: 1

TABLE ITD.1

Purpose	Specifies terms of sale (invoice payment terms).
Semantic Note 1	If ITD01 = "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if ITD01 = "05", then ITD06 or ITD07 is required.
Semantic Note 2	If ITD03 is present, then at least one of ITD04, ITD05, or ITD13 is required.
Semantic Note 3	ITD15 is the percentage applied to a base amount used to determine a late payment charge.

TABLE ITD.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
ITD01	336	Terms Type Code	O ID 2/2	Code identifying type of payment terms
ITD02	333	Terms Basis Date Code	O ID 1/2	Code identifying the beginning of the terms period
ITD03	338	Terms Discount Percent	O R 1/6	Discount percent if paid on/before the discount due date
ITD04	370	Terms Discount Due Date	X DT 8/8	CCYYMMDD
ITD05	351	Terms Discount Days Due	X N0 1/3	Number of days in the discount period
ITD06	446	Terms Net Due Date	O DT 8/8	CCYYMMDD
ITD07	386	Terms Net Days	O N0 1/3	Number of days until total invoice amount is due
ITD08	362	Terms Discount Amount	O N2 1/10	Total amount of terms discount
ITD09	388	Terms Deferred Due Date	O DT 8/8	CCYYMMDD
ITD10	389	Deferred Amount Due	X N2 1/10	Deferred amount due for payment
ITD11	342	Percent of Invoice Payable	X R 1/5	Amount of invoice payable expressed in percent
ITD12	352	Description	O AN 1/80	Free-form description clarifying related terms
ITD13	765	Day of Month	X N0 1/2	Numeric day of month (1 to max day)
ITD14	107	Payment Method Code	O ID 1/2	Code identifying type of payment procedures
ITD15	954	Percent	O R 1/10	Percentage expressed as a decimal

N9 — Reference Identification

Header · Position 060 · Optional · Max Use: 300 Also appears at Loop 0100 Position 150 (Max Use 5) and Loop 0400 Position 130 (Max Use 5). One definition governs all three positions.

TABLE N9.1

Purpose	Transmits identifying information as specified by the Reference Identification Qualifier.
Syntax Note 1	At least one of N902 or N903 is required (R0203).
Syntax Note 2	If N906 is present, then N905 is required (C0605).
Semantic Note 1	N906 reflects the time zone which the time reflects.
Semantic Note 2	When N901 = SCA, N902 contains the SCAC of the interline carrier. Recommended for third-party logistics providers.

TABLE N9.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
N901	128	Reference Identification Qualifier	M ID 2/3	BM = Bill of Lading; PO = Purchase Order; CN = Carrier's Reference (PRO); SCA = SCAC. Any valid 4010 element 128 qualifier accepted.
N902	127	Reference Identification	X AN 1/30	Required if N903 absent.
N903	369	Free-form Description	X AN 1/45	Required if N902 absent.
N904	373	Date	O DT 8/8	CCYYMMDD
N905	337	Time	X TM 4/8	HHMM to HHMMSSDD. Required if N906 present.
N906	623	Time Code	O ID 2/2	Time-zone code per ISO 8601 (e.g., ET, CT, MT, PT). If present, N905 required.
N907	C040	Reference Identifier (composite)	O	Composite of Reference Identification Qualifier/Reference Identification pairs. Not populated by CONTAX.

G62 — Date/Time

Header · Position 070 · Optional · Max Use: 6

TABLE G62.1

Purpose	Specifies pertinent dates and times.
Syntax Note 1	At least one of G6201 or G6203 is required.
Syntax Note 2	If either G6201 or G6202 is present, then the other is required.
Syntax Note 3	If either G6203 or G6204 is present, then the other is required.

TABLE G62.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
G6201	432	Date Qualifier	X ID 2/2	11 = Shipped on This Date; 35 = Delivered on This Date; 86 = Actual Pickup Date. Required if G6202 present.
G6202	373	Date	X DT 8/8	CCYYMMDD. Required if G6201 present.
G6203	176	Time Qualifier	X ID 1/2	8 = Actual Pickup Time. Required if G6204 present.
G6204	337	Time	X TM 4/8	HHMM to HHMMSSDD. Required if G6203 present.

R3 — Route Information - Motor

Header · Position 080 · Optional · Max Use: 12

TABLE R3.1

Purpose	Specifies carrier and routing sequences and details.
Syntax Note 1	If R3-11 is present, then R3-10 is required.
Syntax Note 2	If R3-12 is present, then R3-11 is required.
Semantic Note 1	R303 is the station or city name at which carriers interchange shipments.
Semantic Note 2	R307 is the carrier's billing date; R308 is the amount due the carrier.

TABLE R3.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
R301	140	Standard Carrier Alpha Code	M ID 2/4	Carrier's SCAC
R302	133	Routing Sequence Code	M ID 1/2	Relationship of a carrier to the shipment movement
R303	19	City Name	O AN 2/30	Interchange station or city name
R304	91	Transportation Method/Type Code	O ID 1/2	Method/type of transportation
R305	154	Standard Point Location Code	O ID 6/9	NMFTA Standard Point Location Code
R306	76	Invoice Number	O AN 1/22	Identifying number assigned by issuer
R307	373	Date	O DT 8/8	Carrier's billing date, CCYYMMDD
R308	610	Amount	O N2 1/15	Amount due the carrier
R309	369	Free-form Description	O AN 1/45	Free-form descriptive text
R310	284	Service Level Code	X ID 2/2	Level of transportation/billing service
R311	284	Service Level Code	X ID 2/2	If R311 is present, then R310 is required
R312	284	Service Level Code	O ID 2/2	Required if R311 present

H3 — Special Handling Instructions

Header · Position 090 · Optional · Max Use: 6

TABLE H3.1

Purpose	Specifies special handling instructions in coded or free-form format.
Syntax Note 1	Only one of H301 or H302 may be present (E0102).

TABLE H3.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
H301	152	Special Handling Code	X ID 2/3	Coded special transportation handling instruction. Mutually exclusive with H302.
H302	153	Special Handling Description	X AN 2/30	Free-form handling instruction when a code is not adequate.
H303	241	Protective Service Code	O ID 1/4	Perishable protective service (rail carriers only)
H304	242	Vent Instruction Code	O ID 1/7	Vent instructions
H305	257	Tariff Application Code	O ID 1/1	Code indicating to which traffic a tariff applies

K1 — Remarks

Header · Position 100 · Optional · Max Use: 10

TABLE K1.1

Purpose	Transmits free-form information for comment or special instruction.
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TABLE K1.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
K101	61	Free-Form Message	M AN 1/30	Free-form information
K102	61	Free-Form Message	O AN 1/30	Continuation of free-form information

Header — Loop 0100 (Party Identification, repeats up to 10)

N1 — Name

Header · Loop 0100 · Position 110 · Mandatory · Max Use: 1 per loop

TABLE N1.1

Purpose	Identifies a party by type of organization, name, and code.
Syntax Note 1	At least one of N102 or N103 is required.
Syntax Note 2	If either N103 or N104 is present, then the other is required.
Comment 1	N105 and N106 further define the type of entity in N101.

TABLE N1.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
N101	98	Entity Identifier Code	M ID 2/3	SH = Shipper; CN = Consignee; BT = Bill-to-Party; CA = Carrier
N102	93	Name	X AN 1/60	Free-form name. Required if N103 absent.
N103	66	Identification Code Qualifier	X ID 1/2	1 = D-U-N-S Number; 2 = SCAC; 91 = Assigned by Seller or Seller's Agent; 92 = Assigned by Buyer or Buyer's Agent. Required if N104 present.
N104	67	Identification Code	X AN 2/80	Party identification code. Required if N103 present.

N2 — Additional Name Information

Header · Loop 0100 · Position 120 · Optional · Max Use: 1

TABLE N2.1

Purpose	Specifies additional names or those longer than 60 characters in length.
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TABLE N2.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
N201	93	Name	M AN 1/60	Free-form name (continuation)
N202	93	Name	O AN 1/60	Free-form name (continuation)

N3 — Address Information

Header · Loop 0100 · Position 130 · Optional · Max Use: 2

TABLE N3.1

Purpose	Specifies the location of the named party.
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TABLE N3.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
N301	166	Address Information	M AN 1/55	Address line 1
N302	166	Address Information	O AN 1/55	Address line 2 (continued)

N4 — Geographic Location

Header · Loop 0100 · Position 140 · Optional · Max Use: 1

TABLE N4.1

Purpose	Specifies the geographic place of the named party.
Syntax Note 1	If N406 is present, then N405 is required.
Comment 1	N402 is required only if city name (N401) is in the U.S. or Canada.

TABLE N4.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
N401	19	City Name	O AN 2/30	Free-form city name
N402	156	State or Province Code	O ID 2/2	Standard state/province code
N403	116	Postal Code	O ID 3/15	Postal zone code (no punctuation or blanks for U.S.)
N404	26	Country Code	O ID 2/3	ISO country code

(Loop 0100 Position 150 — N9 Reference Identification — uses the N9 definition documented in the Header section above.)

Detail — Loop 0400 (Line-Item Detail, repeats up to 9999)

LX — Assigned Number

Detail · Loop 0400 · Position 120 · Mandatory · Max Use: 1 per loop

TABLE LX.1

Purpose	References a line number within the transaction set.
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TABLE LX.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
LX01	554	Assigned Number	M N0 1/6	Number assigned for differentiation within the transaction set

(Loop 0400 Position 130 — N9 Reference Identification — uses the N9 definition documented in the Header section above; commonly carries the line-level PRO or reference number.)

POD — Proof of Delivery

Detail · Loop 0400 · Position 137 · Optional · Max Use: 1

TABLE POD.1

Purpose	Provides proof of delivery for the line item.
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TABLE POD.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
POD01	373	Date	M DT 8/8	Delivery date, CCYYMMDD
POD02	337	Time	O TM 4/8	Delivery time, HHMM to HHMMSSDD
POD03	93	Name	M AN 1/60	Name of the person who signed for/received delivery

L5 — Description, Marks and Numbers

Detail · Loop 0400 · Position 140 · Optional · Max Use: 30

TABLE L5.1

Purpose	Specifies the line item in terms of description, quantity, packaging, and marks and numbers.
Syntax Note 1	If either L503 or L504 is present, then the other is required (P0304).
Syntax Note 2	If L507 is present, then L506 is required (C0706).
Syntax Note 3	If either L508 or L509 is present, then the other is required (P0809).
Semantic Note 1	L502 may be used to send quantity information as part of the product description.

TABLE L5.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
L501	213	Lading Line Item Number	O N0 1/3	Sequential line number for lading item
L502	79	Lading Description	O AN 1/50	Description for rating and billing purposes
L503	22	Commodity Code	X AN 1/30	Required if L504 present.
L504	23	Commodity Code Qualifier	X ID 1/1	N = NMFC; T = STCC. Required if L503 present.
L505	103	Packaging Code	O AN 3/5	Packaging form/material code
L506	87	Marks and Numbers	X AN 1/48	Marks and numbers identifying the shipment
L507	88	Marks and Numbers Qualifier	O ID 1/2	Source/application of marks and numbers. If present, L506 required.
L508	23	Commodity Code Qualifier	X ID 1/1	Required if L509 present.
L509	22	Commodity Code	X AN 1/30	Required if L508 present.
L510	595	Compartment ID Code	O ID 1/1	Compartment in a compartmentalized tank car

H1 — Hazardous Material

Detail · Loop 0400 · Position 150 · Optional · Max Use: 3

TABLE H1.1

Purpose	Specifies information relative to hazardous material.
Syntax Note 1	If either H107 or H108 is present, then the other is required (P0708).
Semantic Note 1	H107 is the lowest (flashpoint) temperature for the hazardous material.

TABLE H1.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
H101	62	Hazardous Material Code	M AN 4/10	Code for regulated hazardous materials
H102	209	Hazardous Material Class Code	O AN 1/4	Kind of hazard for the material
H103	208	Hazardous Material Code Qualifier	O ID 1/1	Qualifies the Hazardous Material Class Code (209)
H104	64	Hazardous Material Description	O AN 2/30	Material name, special instructions, phone number
H105	63	Hazardous Material Contact	O AN 1/24	Emergency contact phone/name
H106	200	Hazardous Materials Page	O AN 1/6	UN page number for international transport
H107	77	Flashpoint Temperature	X N 1/3	Flashpoint temperature. Required if H108 present.
H108	355	Unit or Basis for Measurement Code	X ID 2/2	Units for H107. Required if H107 present.
H109	254	Packing Group Code	O ID 1/3	Degree of danger (Roman numeral I, II, or III)

H2 — Additional Hazardous Material Description

Detail · Loop 0400 · Position 160 · Optional · Max Use: 2

TABLE H2.1

Purpose	Specifies free-form hazardous material descriptive data in addition to the H1 segment.
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TABLE H2.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
H201	64	Hazardous Material Description	M AN 2/30	Material name, special instructions, phone number
H202	274	Hazardous Material Classification	O AN 1/30	Free-form classification/division/label requirements

L0 — Line Item — Quantity and Weight

Detail · Loop 0400 · Position 170 · Optional · Max Use: 10

TABLE L0.1

Purpose	Specifies quantity, weight, volume, and type of service for a line item.
Syntax Note 1	If either L002 or L003 is present, then the other is required (P0203).
Syntax Note 2	If either L004 or L005 is present, then the other is required (P0405).
Syntax Note 3	If either L006 or L007 is present, then the other is required (P0607).
Syntax Note 4	If either L008 or L009 is present, then the other is required (P0809).
Syntax Note 5	If L011 is present, then L004 is required (C1104).
Syntax Note 6	If either L013 or L015 is present, then the other is required (P1315).
Semantic Note 1	L008 is the number of handling units of the line item tendered to the carrier.
Semantic Note 2	L013 can only be used if the code in L009 is PLT, SKD, or SLP; it conveys the total number of boxes/cartons/pieces on the pallet, skid, or slip sheet.
Semantic Note 3	L015 designates whether the carrier must verify the number of units on a pallet, slip sheet, or skid (Y/N).

TABLE L0.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
L001	213	Lading Line Item Number	O N0 1/3	Sequential line number
L002	220	Billed/Rated-as Quantity	X R 1/11	Basis for rating. Required if L003 present.
L003	221	Billed/Rated-as Qualifier	X ID 2/2	Type of quantity/value on which the rate is based. Required if L002 present.
L004	81	Weight	X R 1/10	Numeric weight value. Required if L005 present.
L005	187	Weight Qualifier	X ID 1/2	G = Gross; N = Actual Net; B = Billed; T = Tare; etc. Required if L004 present.
L006	183	Volume	X R 1/8	Volume value. Required if L007 present.
L007	184	Volume Unit Qualifier	X ID 1/1	E = Cubic Feet; X = Cubic Meters. Required if L006 present.
L008	80	Lading Quantity	X N0 1/7	Number of handling units. Required if L009 present.
L009	211	Packaging Form Code	X ID 3/3	PLT; SKD; CTN; BOX; BDL; CAS; ROL; SLP; etc. Required if L008 present.
L010	458	Dunnage Description	O AN 2/25	Material used to protect lading
L011	188	Weight Unit Code	O ID 1/1	E/G/K/L/M/O/S/T. If present, L004 required.

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
L012	56	Type of Service Code	O ID 2/2	Extent of transportation service requested
L013	380	Quantity	X R 1/15	Units on the pallet/skid/slip sheet. Required if L015 present.
L014	211	Packaging Form Code	O ID 3/3	Packaging form of the lading quantity
L015	1073	Yes/No Condition or Response Code	X ID 1/1	Y = carrier must verify unit count; N = not required. Required if L013 present.

L1 — Rate and Charges

Detail · Loop 0400 · Position 180 · Optional · Max Use: 10

TABLE L1.1

Purpose	Specifies rate and charge detail relative to a line item, including freight charges, advances, special charges, and entitlements.
Syntax Note 1	If either L102 or L103 is present, then the other is required (P0203).
Syntax Note 2	At least one of L104, L105, or L106 is required (R040506).
Syntax Note 3	If either L114 or L115 is present, then the other is required (P1415).
Syntax Note 4	If either L117 or L118 is present, then the other is required (P1718).
Semantic Note 1	L119 is the percent used to determine the charge in L104.
Semantic Note 2	L120, if used, indicates the currency for all monetary amounts in this L1 segment.
Semantic Note 3	L121 is the origin rated-as charge amount.

TABLE L1.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
L101	213	Lading Line Item Number	O N0 1/3	Sequential line number
L102	60	Freight Rate	X R 1/9	Rate that applies to the commodity. Required if L103 present.
L103	122	Rate/Value Qualifier	X ID 2/2	Code qualifying how to extend charges or interpret value (e.g., CT = % of Total; MN = Minimum; PH = Per Hundredweight). Required if L102 present.
L104	58	Charge	X N2 1/12	Freight or special charge amount.
L105	191	Advances	X N2 1/9	Incidental charges not generally considered freight (stop charges, diversion, icing, etc.).
L106	117	Prepaid Amount	X N2 1/9	Money paid at point of origin (usually by shipper).
L107	120	Rate Combination Point Code	O AN 3/9	Connecting station for a combined joint rate
L108	150	Special Charge or Allowance Code	O ID 3/3	See Appendix A. Any valid 4010 element 150 code accepted.
L109	121	Rate Class Code	O ID 1/3	Specifically designated class of goods
L110	39	Entitlement Code	O ID 1/1	Code identifying entitlement party

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
L111	16	Charge Method of Payment	O ID 1/1	Code defining method of payment
L112	276	Special Charge Description	O AN 2/25	Free-form description when an element 150 code is unavailable
L113	257	Tariff Application Code	O ID 1/1	Code indicating to which traffic a tariff applies
L114	74	Declared Value	X N2 2/12	Monetary assigned value. Required if L115 present.
L115	122	Rate/Value Qualifier	X ID 2/2	Code qualifying how to interpret L114. Required if L114 present.
L116	372	Lading Liability Code	O ID 1/1	Code identifying limits of liability
L117	220	Billed/Rated-as Quantity	X R 1/11	Basis for rating. Required if L118 present.
L118	221	Billed/Rated-as Qualifier	X ID 2/2	Type of quantity/value on which the rate is based. Required if L117 present.
L119	954	Percent	O R 1/10	Percent used to determine the charge in L104
L120	100	Currency Code	O ID 3/3	Currency for all monetary amounts in this L1 segment
L121	610	Amount	O N2 1/15	Origin rated-as charge amount

L4 — Measurement

Detail · Loop 0400 · Position 190 · Optional · Max Use: 10

TABLE L4.1

Purpose	Describes physical dimensions and quantities for a line item.
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TABLE L4.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
L401	82	Length	M R 1/8	Largest horizontal dimension measured when object is upright
L402	189	Width	M R 1/8	Shorter of the two horizontal dimensions measured when object is upright
L403	65	Height	M R 1/8	Vertical dimension measured when object is upright
L404	90	Measurement Unit Qualifier	M ID 1/1	C = Centimeters; N = Inches
L406	1271	Industry Code	O AN 1/30	Code from a specific industry code list

L7 — Tariff Reference

Detail · Loop 0400 · Position 200 · Optional · Max Use: 10

TABLE L7.1

Purpose	References details of the tariff used to arrive at applicable rates or charges.
Semantic Note 1	L710 is the effective date.
Semantic Note 2	In L715 and L716, "City" and "State" are used for rate-combination city and state.

TABLE L7.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
L701	213	Lading Line Item Number	O N0 1/3	Sequential line number
L702	168	Tariff Agency Code	O ID 1/4	Code for the tariff bureau governing rates
L703	171	Tariff Number	O AN 1/7	Standard tariff number governing rates
L704	172	Tariff Section	O AN 1/2	Extension of the basic tariff number
L705	169	Tariff Item Number	O AN 1/16	Rate/group-of-rates item number in the tariff
L706	170	Tariff Item Part	O N0 1/2	Subsection of a specific tariff item
L707	59	Freight Class Code	O AN 2/5	Generalized freight class (e.g., 70, 77.5, 100)
L708	173	Tariff Supplement Identifier	O AN 1/4	Tariff supplement containing the rate used
L709	46	Ex Parte	O AN 4/4	Level of rates as published in the tariff
L710	373	Date	O DT 8/8	Tariff effective date, CCYYMMDD
L711	119	Rate Basis Number	O AN 1/6	Mileage factor published for rating
L712	227	Tariff Column	O AN 1/2	Tariff commodity classification grouping
L713	294	Tariff Distance	O N0 1/5	Distance on which the rate is based
L714	295	Distance Qualifier	O ID 1/1	Code identifying the distance unit (e.g., tariff miles)
L715	19	City Name	O AN 2/30	Rate-combination city name
L716	156	State or Province Code	O ID 2/2	Rate-combination state/province code

Detail — Small-Package Carton Extension (Optional)

Nested inside Detail Loop 0400: Loop 0460 (Small-Package Consignee, repeat 999999) → Loop 0463 (Carton Detail, repeat 999999). Optional — implement only if your organization also reports individual parcel/small-package carton detail to CONTAX (for example, a motor carrier operating a small-package or ground-parcel division). CONTAX documents the two loop-head segments below (**N1** at 240 and **CD3** at 300). The supporting loop members (**N2** , **N3** , **N4** , **N9** in Loop 0460; **N9** , **H6** Special Services, **L9** Charge Detail, **POD** , **G62** in Loop 0463) are not separately defined in this edition — request their element tables from edi-support@contax.com if you need them.

N1 — Name (Small-Package Consignee)

Detail · Loop 0460 · Position 240 · Optional (mandatory loop-trigger when used) · Max Use: 1 per loop

Uses the same element structure as the header **N1** (see Loop 0100 → N1). N101 identifies the consignee (typically **CN = Consignee**).

CD3 — Carton (Package) Detail

Detail · Loop 0400 → Loop 0460 → Loop 0463 · Position 300 · Optional (mandatory loop-trigger when used) · Max Use: 1 per loop · Loop repeat: 999999

TABLE CD3.1

Purpose	Transmits identifying codes, weights, and other related information for an individual carton (package).
Syntax Note 1	If either CD301 or CD302 is present, then the other is required (P0102).
Syntax Note 2	If either CD307 or CD308 is present, then the other is required (P0708).
Syntax Note 3	If either CD309 or CD310 is present, then the other is required (P0910).
Syntax Note 4	If CD311 is present, then CD305 is required (C1105).
Syntax Note 5	If CD312 is present, then CD311 is required (C1211).
Syntax Note 6	If CD314 is present, then CD305 is required (C1405).
Semantic Note 1	CD308 is the charge for the single package; CD310 is the total charge for all of the packages.
Semantic Note 2	CD314 is the country where the service is to be performed.

TABLE CD3.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
CD301	187	Weight Qualifier	X ID 1/2	Code defining the type of weight (e.g., G = Gross; N = Actual Net; B = Billed). Required if CD302 present.
CD302	81	Weight	X R 1/10	Numeric value of package weight. Required if CD301 present.
CD303	619	Zone	O AN 2/3	Carrier delivery zone
CD304	34	Service Standard	O N1 1/4	Time period of the carrier's standard service for the shipment
CD305	284	Service Level Code	X ID 2/2	Level of transportation/billing service (e.g., CG = Ground; ND = Next Day Air; SC = Second Day Air).
CD306	108	Pick-up or Delivery Code	O ID 1/2	Specifies the location or type of pickup or delivery
CD307	122	Rate/Value Qualifier	X ID 2/2	Code qualifying how to extend charges or interpret value. Required if CD308 present.
CD308	58	Charge	X N2 1/12	Charge for the single package. Required if CD307 present.
CD309	122	Rate/Value Qualifier	X ID 2/2	Code qualifying how to extend charges or interpret value. Required if CD310 present.
CD310	58	Charge	X N2 1/12	Total charge for all of the packages. Required if CD309 present.
CD311	284	Service Level Code	X ID 2/2	Level of transportation/billing service. If present, CD305 required.

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
CD312	284	Service Level Code	O ID 2/2	Level of transportation/billing service. If present, CD311 required.
CD313	591	Payment Method Code	O ID 3/3	Method for the movement of payment instructions
CD314	26	Country Code	O ID 2/3	Country where the service is to be performed. If present, CD305 required.

Summary

L3 — Total Weight and Charges

Summary · Position 010 · Optional · Max Use: 1

TABLE L3.1

Purpose	Specifies total shipment weight, volume, rates, charges, advances, and prepaid amounts.
Syntax Note 1	If either L301 or L302 is present, then the other is required.
Syntax Note 2	If either L303 or L304 is present, then the other is required.
Syntax Note 3	If either L309 or L310 is present, then the other is required.
Syntax Note 4	If L312 is present, then L301 is required.
Syntax Note 5	If either L314 or L315 is present, then the other is required.
Semantic Note 1	L305 is the total charges.
Notes	Optional per X12 004010. CONTAX recommends sending L3 whenever invoice totals are available so that line-level charges can be reconciled to the invoice total.

TABLE L3.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
L301	81	Weight	X R 1/10	Total weight. Required if L302 present.
L302	187	Weight Qualifier	X ID 1/2	G = Gross Weight; B = Billed Weight. Required if L301 present.
L305	58	Charge	O N2 1/12	Total charges in the standard monetary denomination
L311	80	Lading Quantity	O N0 1/7	Number of units of the lading commodity
L312	188	Weight Unit Code	O ID 1/1	L = Pounds. If present, L301 required.

SE — Transaction Set Trailer

Summary · Position 020 · Mandatory · Max Use: 1

TABLE SE.1

Purpose	Indicates the end of the transaction set and provides the segment count.
Notes	SE01 includes both ST and SE segments in the count. SE02 must equal ST02.

TABLE SE.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
SE01	96	Number of Included Segments	M N0 1/10	Total count including ST and SE
SE02	329	Transaction Set Control Number	M AN 4/9	Must equal ST02.

Envelope Trailers

GE — Functional Group Trailer

Envelope · Mandatory · Max Use: 1

TABLE GE.1

Purpose	Indicates the end of a functional group.
Semantic Note 1	GS06 must match GE02.

TABLE GE.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
GE01	97	Number of Transaction Sets Included	M N0 1/6	Total transaction sets in the functional group
GE02	28	Group Control Number	M N0 1/9	Must match GS06.

IEA — Interchange Control Trailer

Envelope · Mandatory · Max Use: 1

TABLE IEA.1

Purpose	Defines the end of the interchange.
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TABLE IEA.2

Ref. Des.	Data Elem.	Name	Req / Type / Size	Notes & Valid Values
IEA01	I16	Number of Included Functional Groups	M N0 1/5	Count of functional groups in the transmission
IEA02	I12	Interchange Control Number	M N0 9/9	Must match ISA13 exactly. Nine digits, zero-padded.

Appendix A — Special Charge or Allowance Codes (L108)

Commonly used codes for **L108** (element 150). Any valid 4010 element 150 code is accepted. Use **L112** (Special Charge Description) for free-form text when an applicable code is unavailable.

Code	Description
400	Freight
405	Fuel Surcharge
DAA	Deficit Freight
DOC	Documentation Charge
DSC	Discount
FUE	Fuel Charge
HAZ	Hazardous Cargo Charge
IDL	Inside Delivery
IHT	Interstate/Highway Toll
LFT	Lift Gate (Truck) or Forklift Service at Pick-up/Delivery
MSG	Miscellaneous Charge
PYS	Priority Service Charge
RES	Residential Delivery
SSF	Single Shipment Fee
STC	State Surcharge