

# **EDI 210 Invoice**

**Motor Freight 210 Invoice with Stop Offs**

**Version: 1.0    ANSI X.12 - 4010    Draft**

**Motor Freight Invoice 210  
EDI Transaction.  
ANSI X.12 Standards  
Version 4010**

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# 210 Motor Carrier Freight Details and Invoice

## Functional Group=IM

This Draft Standard for Trial Use contains the format and establishes the data contents of the Motor Carrier Freight Details and Invoice Transaction Set (210) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide detail information for charges for services rendered by a motor carrier. It is used both as a motor carrier invoice to request payment or as details pertaining to motor freight shipment(s) charges.

### Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

### Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	B3	Beginning Segment for Carrier's Invoice	M	1			Must use
040	C3	Currency	O	1			Used
060	N9	Reference Identification	O	300			Used
070	G62	Date/Time	O	6			Used
080	R3	Route Information - Motor	O	12			Used
<b>LOOP ID - 0100</b>					<b><u>10</u></b>		
110	N1	Name	O	1			Used
130	N3	Address Information	O	2			Used
140	N4	Geographic Location	O	1			Used
<b>LOOP ID - 0200</b>					<b><u>10</u></b>		
160	N7	Equipment Details	O	1			Used
170	M7	Seal Numbers	O	2			Used

### Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<b>LOOP ID - 0300</b>					<b><u>999</u></b>	<b><u>N2/010L</u></b>	
010	S5	Stop Off Details	O	1		N2/010	Used
020	N9	Reference Identification	O	10			Used
030	G62	Date/Time	O	10			Used
<b>LOOP ID - 0310</b>					<b><u>2</u></b>		
050	N1	Name	O	1			Used
070	N3	Address Information	O	2			Used
080	N4	Geographic Location	O	1			Used
<b>LOOP ID - 0400</b>					<b><u>9999</u></b>		
120	LX	Assigned Number	O	1			Used
137	POD	Proof of Delivery	O	1			Used
140	L5	Description, Marks and Numbers	O	30			Used

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
170	L0	Line Item - Quantity and Weight	O	10			Used
180	L1	Rate and Charges	O	10			Used
200	L7	Tariff Reference	O	10			Used
210	K1	Remarks	O	10			Used

**Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	L3	Total Weight and Charges	O	1			Used
020	SE	Transaction Set Trailer	M	1			Must use

**Not Defined:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

**Notes:**

- 2/010L Loops 0300, 0305, 0310 and 0320 shall only be used to identify all stop-off locations and associated data for loading and unloading of freight with the exception of the original stop-off location (shipper) for truckload carriers. The original stop-off location (shipper) shall be transmitted in loop 0100.
- 2/010 Loops 0300, 0305, 0310 and 0320 shall only be used to identify all stop-off locations and associated data for loading and unloading of freight with the exception of the original stop-off location (shipper) for truckload carriers. The original stop-off location (shipper) shall be transmitted in loop 0100.

# ISA Interchange Control Header

Pos: Max: 1  
 Not Defined - Mandatory  
 Loop: N/A Elements: 16

User Option (Usage): Must use

To start and identify an interchange of zero or more functional groups and interchange-related control segments

## 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>
ISA01	I01	<b>Authorization Information Qualifier</b>	M	ID	2/2	Must use
		<b>Description:</b> Code to identify the type of information in the Authorization Information				
ISA02	I02	<b>Authorization Information</b>	M	AN	10/10	Must use
		<b>Description:</b> Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)				
ISA03	I03	<b>Security Information Qualifier</b>	M	ID	2/2	Must use
		<b>Description:</b> Code to identify the type of information in the Security Information				
ISA04	I04	<b>Security Information</b>	M	AN	10/10	Must use
		<b>Description:</b> This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)				
ISA05	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2	Must use
		<b>Description:</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				
ISA06	I06	<b>Interchange Sender ID</b>	M	AN	15/15	Must use
		<b>Description:</b> Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element				
ISA07	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2	Must use
		<b>Description:</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				
ISA08	I07	<b>Interchange Receiver ID</b>	M	AN	15/15	Must use
		<b>Description:</b> Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them				
ISA09	I08	<b>Interchange Date</b>	M	DT	6/6	Must use
		<b>Description:</b> Date of the interchange				
ISA10	I09	<b>Interchange Time</b>	M	TM	4/4	Must use
		<b>Description:</b> Time of the interchange				
ISA11	I10	<b>Interchange Control Standards Identifier</b>	M	ID	1/1	Must use
		<b>Description:</b> Code to identify the agency responsible for the control standard used by the				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		message that is enclosed by the interchange header and trailer				
ISA12	I11	<b>Interchange Control Version Number</b>	M	ID	5/5	Must use
		<b>Description:</b> Code specifying the version number of the interchange control segments				
ISA13	I12	<b>Interchange Control Number</b>	M	N0	9/9	Must use
		<b>Description:</b> A control number assigned by the interchange sender				
ISA14	I13	<b>Acknowledgment Requested</b>	M	ID	1/1	Must use
		<b>Description:</b> Code sent by the sender to request an interchange acknowledgment (TA1)				
ISA15	I14	<b>Usage Indicator</b>	M	ID	1/1	Must use
		<b>Description:</b> Code to indicate whether data enclosed by this interchange envelope is test, production or information				
ISA16	I15	<b>Component Element Separator</b>	M		1/1	Must use
		<b>Description:</b> Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator				

# GS Functional Group Header

<b>Pos:</b>	<b>Max: 1</b>
<b>Not Defined - Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 8</b>

**User Option (Usage):** Must use

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

## 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>
GS01	479	<b>Functional Identifier Code</b>	M	ID	2/2	Must use
		<b>Description:</b> Code identifying a group of application related transaction sets				
GS02	142	<b>Application Sender's Code</b>	M	AN	2/15	Must use
		<b>Description:</b> Code identifying party sending transmission; codes agreed to by trading partners				
GS03	124	<b>Application Receiver's Code</b>	M	AN	2/15	Must use
		<b>Description:</b> Code identifying party receiving transmission; codes agreed to by trading partners				
GS04	373	<b>Date</b>	M	DT	8/8	Must use
		<b>Description:</b> Date expressed as CCYYMMDD				
GS05	337	<b>Time</b>	M	TM	4/8	Must use
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
GS06	28	<b>Group Control Number</b>	M	N0	1/9	Must use
		<b>Description:</b> Assigned number originated and maintained by the sender				
GS07	455	<b>Responsible Agency Code</b>	M	ID	1/2	Must use
		<b>Description:</b> Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480				
GS08	480	<b>Version / Release / Industry Identifier Code</b>	M	AN	1/12	Must use
		<b>Description:</b> Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed				

## Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

**Comments:**

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.



# ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

To indicate the start of a transaction set and to assign a control number

## 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>
ST01	143	<b>Transaction Set Identifier Code</b>	M	ID	3/3	Must use
<b>Description:</b> Code uniquely identifying a Transaction Set						
<b>Code Name</b>						
210 Motor Carrier Freight Details and Invoice						
ST02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Must use
<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

## Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

# B3 Beginning Segment for Carrier's Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 13

**User Option (Usage):** Must use

To transmit basic data relating to the carrier's invoice

## 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>
B302	76	<b>Invoice Number</b>	M	AN	1/22	Must use
		<b>Description:</b> Identifying number assigned by issuer				
B303	145	<b>Shipment Identification Number</b>	O	AN	1/30	Used
		<b>Description:</b> Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)				
B304	146	<b>Shipment Method of Payment</b>	M	ID	2/2	Must use
		<b>Description:</b> Code identifying payment terms for transportation charges				
		<u>Code Name</u>				
		PP    Prepaid (by Seller)				
B305	188	<b>Weight Unit Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code specifying the weight unit				
		<u>Code Name</u>				
		L    Pounds				
B306	373	<b>Date</b>	M	DT	8/8	Must use
		<b>Description:</b> Date expressed as CCYYMMDD				
B307	193	<b>Net Amount Due</b>	M	N2	1/12	Must use
		<b>Description:</b> Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified				
B308	202	<b>Correction Indicator</b>	O	ID	2/2	Used
		<b>Description:</b> Code used to indicate that the transaction set contains information which corrects previous information				
B309	32	<b>Delivery Date</b>	X	DT	8/8	Used
		<b>Description:</b> Date for delivery of cargo to final consignee or to next mode expressed in format CCYYMMDD				
B310	374	<b>Date/Time Qualifier</b>	X	ID	3/3	Used
		<b>Description:</b> Code specifying type of date or time, or both date and time				
B311	140	<b>Standard Carrier Alpha Code</b>	M	ID	2/4	Must use
		<b>Description:</b> Standard Carrier Alpha Code				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
B312	373	<b>Date</b>	O	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMMDD				
B313	375	<b>Tariff Service Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code specifying the types of services for rating purposes				
B314	335	<b>Transportation Terms Code</b>	O	ID	3/3	Used
		<b>Description:</b> Code identifying the trade terms which apply to the shipment transportation responsibility				

**Syntax Rules:**

1. P0910 - If either B309 or B310 is present, then the other is required.

**Semantics:**

1. B306 is the billing date.
2. On collect freight bills the data in B309 will be the actual delivery date. For the shipments invoiced prior to delivery, the B309 will be the estimated date of delivery.
3. If B314 is used, B304 will indicate the party or parties responsible for payment of the transportation terms identified in B314.

# C3 Currency

<b>Pos: 040</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N/A</b>	<b>Elements: 4</b>

**User Option (Usage):** Used

To specify the currency being used in the transaction set

## 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>
C301	100	<b>Currency Code</b>	M	ID	3/3	Must use
<b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified						
C302	280	<b>Exchange Rate</b>	O	R	4/10	Used
<b>Description:</b> Value to be used as a multiplier conversion factor to convert monetary value from one currency to another						
C303	100	<b>Currency Code</b>	O	ID	3/3	Used
<b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified						
C304	100	<b>Currency Code</b>	O	ID	3/3	Used
<b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified						

## Semantics:

1. C301 is the billing currency.
2. C303 is the payment currency.
3. C304 is the rated currency.

## Comments:

1. Currency is implied by the code for the country in whose currency the monetary amounts are specified.

# N9 Reference Identification

Pos: 060	Max: 300
Heading - Optional	
Loop: N/A	Elements: 2

**User Option (Usage):** Used

To transmit identifying information as specified by the Reference Identification Qualifier

## 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>
N901	128	<b>Reference Identification Qualifier</b>	M	ID	2/3	Must use
<b>Description:</b> Code qualifying the Reference Identification						
<b>Code Name</b>						
BM Bill of Lading Number						
CR Customer Reference Number						
CT Contract Number						
DP Department Number						
GE Geographic Number						
LO Load Planning Number						
PG Product Group						
PO Purchase Order Number						
TH Transportation Account Code (TAC)						
N902	127	<b>Reference Identification</b>	X	AN	1/30	Used
<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

## Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.
2. C0605 - If N906 is present, then N905 is required.

## Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

# G62 Date/Time

Pos: 070	Max: 6
Heading - Optional	
Loop: N/A	Elements: 2

**User Option (Usage):** Used

To specify pertinent dates and times

**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>
G6201	432	<b>Date Qualifier</b>	X	ID	2/2	Used
<b>Description:</b> Code specifying type of date						
<b>Code Name</b>						
86 Actual Pickup Date						
G6202	373	<b>Date</b>	X	DT	8/8	Used
<b>Description:</b> Date expressed as CCYYMMDD						

**Syntax Rules:**

1. R0103 - At least one of G6201 or G6203 is required.
2. P0102 - If either G6201 or G6202 is present, then the other is required.
3. P0304 - If either G6203 or G6204 is present, then the other is required.

# R3 Route Information - Motor

Pos: 080	Max: 12
Heading - Optional	
Loop: N/A	Elements: 5

**User Option (Usage):** Used

To specify carrier and routing sequences and details

## 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>
R301	140	<b>Standard Carrier Alpha Code</b>	M	ID	2/4	Must use
		<b>Description:</b> Standard Carrier Alpha Code				
R302	133	<b>Routing Sequence Code</b>	M	ID	1/2	Must use
		<b>Description:</b> Code describing the relationship of a carrier to a specific shipment movement				
		<b>Code Name</b>				
		B     Origin/Delivery Carrier (Any Mode)				
R304	91	<b>Transportation Method/Type Code</b>	O	ID	1/2	Used
		<b>Description:</b> Code specifying the method or type of transportation for the shipment				
		<b>Code Name</b>				
		ZZ     Mutually defined				
R306	76	<b>Invoice Number</b>	O	AN	1/22	Used
		<b>Description:</b> Identifying number assigned by issuer				
R310	284	<b>Service Level Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code indicating the level of transportation service or the billing service offered by the transportation carrier				
		<b>Code Name</b>				
		SD     Saturday				

## Syntax Rules:

1. C1110 - If R311 is present, then R310 is required.
2. C1211 - If R312 is present, then R311 is required.

## Semantics:

1. R303 is the station or city name at which carriers interchange shipments
2. R307 is the carrier's billing date.
3. R308 is the amount due the carrier.

# Loop 0100

Pos: 110	Repeat: 10
Optional	
Loop: 0100	Elements: N/A

**User Option (Usage):** Used

To identify a party by type of organization, name, and code

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
110	N1	Name	O	1		Used
130	N3	Address Information	O	2		Used
140	N4	Geographic Location	O	1		Used



# N1 Name

<b>Pos: 110</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: 0100</b>	<b>Elements: 4</b>

**User Option (Usage):** Used

To identify a party by type of organization, name, and code

**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	<b>Entity Identifier Code</b>	M	ID	2/3	Must use
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual				
		<b>Code Name</b>				
		BT	Bill-to-Party			
		CN	Consignee			
		RT	Returned to			
		SH	Shipper			
N102	93	<b>Name</b>	X	AN	1/60	Used
		<b>Description:</b> Free-form name				
N103	66	<b>Identification Code Qualifier</b>	X	ID	1/2	Used
		<b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)				
		<b>Code Name</b>				
		25	Carrier's Customer Code			
		26	Petroleum Accountants Society of Canada Company Code			
N104	67	<b>Identification Code</b>	X	AN	2/80	Used
		<b>Description:</b> Code identifying a party or other code				

**Syntax Rules:**

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

**Comments:**

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

# N3 Address Information

Pos: 130	Max: 2
Heading - Optional	
Loop: 0100	Elements: 1

**User Option (Usage):** Used

To specify the location of the named party

## 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	M	AN	1/55	Must use

**Description:** Address information

# N4 Geographic Location

Pos: 140	Max: 1
Heading - Optional	
Loop: 0100	Elements: 4

**User Option (Usage):** Used

To specify the geographic place of the named party

## 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	<b>City Name</b>	O	AN	2/30	Used
		<b>Description:</b> Free-form text for city name				
N402	156	<b>State or Province Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
N403	116	<b>Postal Code</b>	O	ID	3/15	Used
		<b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	<b>Country Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code identifying the country				

## Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

## Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

# Loop 0200

Pos: 160	Repeat: 10
Optional	
Loop: 0200	Elements: N/A

User Option (Usage): Used

To identify the equipment

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
160	N7	Equipment Details	O	1		Used
170	M7	Seal Numbers	O	2		Used

# N7 Equipment Details

Pos: 160	Max: 1
Heading - Optional	
Loop: 0200	Elements: 13

User Option (Usage): Used

To identify the equipment

## 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>
N701	206	<b>Equipment Initial</b>	O	AN	1/4	Used
		<b>Description:</b> Prefix or alphabetic part of an equipment unit's identifying number				
N702	207	<b>Equipment Number</b>	M	AN	1/10	Must use
		<b>Description:</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)				
N703	81	<b>Weight</b>	X	R	1/10	Used
		<b>Description:</b> Numeric value of weight				
N704	187	<b>Weight Qualifier</b>	X	ID	1/2	Used
		<b>Description:</b> Code defining the type of weight				
N705	167	<b>Tare Weight</b>	X	N0	3/8	Used
		<b>Description:</b> Weight of the equipment				
N706	232	<b>Weight Allowance</b>	O	N0	2/6	Used
		<b>Description:</b> Allowance made for increased weight due to such factors as snow				
N707	205	<b>Dunnage</b>	O	N0	1/6	Used
		<b>Description:</b> Weight of material used to protect lading (even bracings, false floors, etc.)				
N708	183	<b>Volume</b>	X	R	1/8	Used
		<b>Description:</b> Value of volumetric measure				
N709	184	<b>Volume Unit Qualifier</b>	X	ID	1/1	Used
		<b>Description:</b> Code identifying the volume unit				
N711	40	<b>Equipment Description Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code identifying type of equipment used for shipment				
N717	188	<b>Weight Unit Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code specifying the weight unit				
N719	56	<b>Type of Service Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code specifying extent of transportation service requested				
N722	24	<b>Equipment Type</b>	O	ID	4/4	Used
		<b>Description:</b> Code identifying equipment type				

**Syntax Rules:**

1. P0304 - If either N703 or N704 is present, then the other is required.
2. P0516 - If either N705 or N716 is present, then the other is required.
3. P0809 - If either N708 or N709 is present, then the other is required.

**Semantics:**

1. N712 is the owner of the equipment.
2. N723 is the operator or carrier of the rights of the equipment.

**Comments:**

1. N701 is mandatory for rail transactions.
2. N720 and N721 are expressed in inches.

# M7 Seal Numbers

Pos: 170	Max: 2
Heading - Optional	
Loop: 0200	Elements: 2

**User Option (Usage):** Used

To record seal numbers used and the organization that applied the seals

## 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>
M701	225	<b>Seal Number</b>	M	AN	2/15	Must use
<b>Description:</b> Unique number on seal used to close a shipment						
M705	98	<b>Entity Identifier Code</b>	O	ID	2/3	Used
<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual						

## Comments:

1. M705 indicates the name of the organization which applied the seal(s).

# Loop 0300

Pos: 010	Repeat: 999
Optional	
Loop: 0300	Elements: N/A

**User Option (Usage):** Used

To specify stop-off detail reference numbers and stop reason

**Loop Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	S5	Stop Off Details	O	1		Used
020	N9	Reference Identification	O	10		Used
030	G62	Date/Time	O	10		Used
050		Loop 0310	O		2	Used



# S5 Stop Off Details

Pos: 010	Max: 1
Detail - Optional	
Loop: 0300	Elements: 4

**User Option (Usage):** Used

To specify stop-off detail reference numbers and stop reason

## 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>
S501	165	<b>Stop Sequence Number</b>	M	N0	1/3	Must use
		<b>Description:</b> Identifying number for the specific stop and the sequence in which the stop is to be performed				
S502	163	<b>Stop Reason Code</b>	M	ID	2/2	Must use
		<b>Description:</b> Code specifying the reason for the stop				
		<u>Code Name</u>				
		PL    Part Load				
S503	81	<b>Weight</b>	X	R	1/10	Used
		<b>Description:</b> Numeric value of weight				
S504	188	<b>Weight Unit Code</b>	X	ID	1/1	Used
		<b>Description:</b> Code specifying the weight unit				
		<u>Code Name</u>				
		L       Pounds				

## Syntax Rules:

1. P0304 - If either S503 or S504 is present, then the other is required.
2. P0506 - If either S505 or S506 is present, then the other is required.
3. P0708 - If either S507 or S508 is present, then the other is required.

## Semantics:

1. S509 is the stop reason description.

# N9 Reference Identification

Pos: 020	Max: 10
Detail - Optional	
Loop: 0300	Elements: 2

**User Option (Usage):** Used

To transmit identifying information as specified by the Reference Identification Qualifier

## 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>								
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use								
Description: Code qualifying the Reference Identification														
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>BM</td><td>Bill of Lading Number</td></tr><tr><td>LO</td><td>Load Planning Number</td></tr><tr><td>PO</td><td>Purchase Order Number</td></tr></table>							<u>Code</u>	<u>Name</u>	BM	Bill of Lading Number	LO	Load Planning Number	PO	Purchase Order Number
<u>Code</u>	<u>Name</u>													
BM	Bill of Lading Number													
LO	Load Planning Number													
PO	Purchase Order Number													
N902	127	Reference Identification	X	AN	1/30	Used								
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier														

## Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.
2. C0605 - If N906 is present, then N905 is required.

## Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

# G62 Date/Time

Pos: 030	Max: 10
Detail - Optional	
Loop: 0300	Elements: 5

**User Option (Usage):** Used

To specify pertinent dates and times

**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>
G6201	432	<b>Date Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying type of date				
G6202	373	<b>Date</b>	X	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMMDD				
G6203	176	<b>Time Qualifier</b>	X	ID	1/2	Used
		<b>Description:</b> Code specifying the reported time				
G6204	337	<b>Time</b>	X	TM	4/8	Used
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
G6205	623	<b>Time Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow				

**Syntax Rules:**

1. R0103 - At least one of G6201 or G6203 is required.
2. P0102 - If either G6201 or G6202 is present, then the other is required.
3. P0304 - If either G6203 or G6204 is present, then the other is required.

# Loop 0310

Pos: 050	Repeat: 2
Optional	
Loop: 0310	Elements: N/A

**User Option (Usage):** Used

To identify a party by type of organization, name, and code

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
050	N1	Name	O	1		Used
070	N3	Address Information	O	2		Used
080	N4	Geographic Location	O	1		Used

# N1 Name

Pos: 050	Max: 1
Detail - Optional	
Loop: 0310	Elements: 2

**User Option (Usage):** Used

To identify a party by type of organization, name, and code

**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	<b>Entity Identifier Code</b>	M	ID	2/3	Must use
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual				
		<u>Code Name</u>				
		CN Consignee				
N102	93	<b>Name</b>	X	AN	1/60	Used
		<b>Description:</b> Free-form name				

**Syntax Rules:**

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

**Comments:**

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

# N3 Address Information

Pos: 070	Max: 2
Detail - Optional	
Loop: 0310	Elements: 1

**User Option (Usage):** Used

To specify the location of the named party

## 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	M	AN	1/55	Must use

**Description:** Address information

# N4 Geographic Location

Pos: 080	Max: 1
Detail - Optional	
Loop: 0310	Elements: 4

**User Option (Usage):** Used

To specify the geographic place of the named party

## 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	<b>City Name</b>	O	AN	2/30	Used
		<b>Description:</b> Free-form text for city name				
N402	156	<b>State or Province Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
N403	116	<b>Postal Code</b>	O	ID	3/15	Used
		<b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	<b>Country Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code identifying the country				

## Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

## Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

# Loop 0400

Pos: 120	Repeat: 9999
Optional	
Loop: 0400	Elements: N/A

**User Option (Usage):** Used

To reference a line number in a transaction set

**Loop Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
120	LX	Assigned Number	O	1		Used
137	POD	Proof of Delivery	O	1		Used
140	L5	Description, Marks and Numbers	O	30		Used
170	L0	Line Item - Quantity and Weight	O	10		Used
180	L1	Rate and Charges	O	10		Used
200	L7	Tariff Reference	O	10		Used
210	K1	Remarks	O	10		Used



# LX Assigned Number

Pos: 120	Max: 1
Detail - Optional	
Loop: 0400	Elements: 1

User Option (Usage): Used

To reference a line number in a transaction set

## 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>
LX01	554	Assigned Number	M	N0	1/6	Must use

**Description:** Number assigned for differentiation within a transaction set

# POD Proof of Delivery

Pos: 137	Max: 1
Detail - Optional	
Loop: 0400	Elements: 3

**User Option (Usage):** Used

To provide proof of delivery

## 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>
POD01	373	<b>Date</b>	M	DT	8/8	Must use
<b>Description:</b> Date expressed as CCYYMMDD						
POD02	337	<b>Time</b>	O	TM	4/8	Used
<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
POD03	93	<b>Name</b>	M	AN	1/60	Must use
<b>Description:</b> Free-form name						

# L5 Description, Marks and Numbers

Pos: 140	Max: 30
Detail - Optional	
Loop: 0400	Elements: 2

**User Option (Usage):** Used

To specify the line item in terms of description, quantity, packaging, and marks and numbers

## 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>
L501	213	<b>Lading Line Item Number</b>	O	N0	1/3	Used
		<b>Description:</b> Sequential line number for a lading item				
L502	79	<b>Lading Description</b>	O	AN	1/50	Used
		<b>Description:</b> Description of an item as required for rating and billing purposes				

## Syntax Rules:

1. P0304 - If either L503 or L504 is present, then the other is required.
2. C0706 - If L507 is present, then L506 is required.
3. P0809 - If either L508 or L509 is present, then the other is required.

## Comments:

1. L502 may be used to send quantity information as part of the product description.

# L0 Line Item - Quantity and Weight

Pos: 170	Max: 10
Detail - Optional	
Loop: 0400	Elements: 5

User Option (Usage): Used

To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

## 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>
L001	213	<b>Lading Line Item Number</b>	O	N0	1/3	Used
		<b>Description:</b> Sequential line number for a lading item				
L004	81	<b>Weight</b>	X	R	1/10	Used
		<b>Description:</b> Numeric value of weight				
L005	187	<b>Weight Qualifier</b>	X	ID	1/2	Used
		<b>Description:</b> Code defining the type of weight				
		<u>Code Name</u>				
		G Gross Weight				
L008	80	<b>Lading Quantity</b>	X	N0	1/7	Used
		<b>Description:</b> Number of units (pieces) of the lading commodity				
L009	211	<b>Packaging Form Code</b>	X	ID	3/3	Used
		<b>Description:</b> Code for packaging form of the lading quantity				
		<u>Code Name</u>				
		PCS Pieces				

## Syntax Rules:

1. P0203 - If either L002 or L003 is present, then the other is required.
2. P0405 - If either L004 or L005 is present, then the other is required.
3. P0607 - If either L006 or L007 is present, then the other is required.
4. P0809 - If either L008 or L009 is present, then the other is required.
5. C1104 - If L011 is present, then L004 is required.
6. P1315 - If either L013 or L015 is present, then the other is required.

## Semantics:

1. L008 is the number of handling units of the line item tendered to the carrier.
2. L013 can only be used if the code in L009 is PLT, SKD, or SLP.
3. L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.

## Comments:

1. L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

# L1 Rate and Charges

Pos: 180	Max: 10
Detail - Optional	
Loop: 0400	Elements: 5

User Option (Usage): Used

To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements

## 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>
L101	213	<b>Lading Line Item Number</b>	O	N0	1/3	Used
		<b>Description:</b> Sequential line number for a lading item				
L102	60	<b>Freight Rate</b>	X	R	1/9	Used
		<b>Description:</b> Rate that applies to the specific commodity				
L103	122	<b>Rate/Value Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code qualifying how to extend charges or interpret value				
		<b><u>Code</u> <u>Name</u></b>				
		FR Flat Rate				
		PM Per Mile				
L104	58	<b>Charge</b>	X	N2	1/12	Used
		<b>Description:</b> For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified				
L108	150	<b>Special Charge or Allowance Code</b>	O	ID	3/3	Used
		<b>Description:</b> Code identifying type of special charge or allowance				
		<b><u>Code</u> <u>Name</u></b>				
		400 Freight				
		FUE Fuel Charge				
		HAZ Hazardous Cargo Charge				
		SOC Stop-off Charge				

## Syntax Rules:

1. P0203 - If either L102 or L103 is present, then the other is required.
2. R040506 - At least one of L104, L105 or L106 is required.
3. P1415 - If either L114 or L115 is present, then the other is required.
4. P1718 - If either L117 or L118 is present, then the other is required.

## Semantics:

1. L119 is the percent used to determine the charge in L104.
2. L120, if used, indicates the currency for all monetary amounts in this L1 segment.
3. L121 is the origin rated as charge amount.

# L7 Tariff Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: 0400	Elements: 2

**User Option (Usage):** Used

To reference details of the tariff used to arrive at applicable rates or charge

## 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>
L701	213	<b>Lading Line Item Number</b>	O	N0	1/3	Used
<b>Description:</b> Sequential line number for a lading item						
L707	59	<b>Freight Class Code</b>	O	AN	2/5	Used
<b>Description:</b> Code indicating generalized classification that applies to one or more items in the shipment, i.e., class 70, 77.5, etc.						

## Semantics:

1. L710 is the effective date.
2. In L715 and L716, "City" and "State" are used for rate combination city and state.

**K1 Remarks**

<b>Pos: 210</b>	<b>Max: 10</b>
<b>Detail - Optional</b>	
<b>Loop: 0400</b>	<b>Elements: 2</b>

**User Option (Usage):** Used

To transmit information in a free-form format for comment or special instruction

**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>
K101	61	<b>Free-Form Message</b>	M	AN	1/30	Must use
		<b>Description:</b> Free-form information				
K102	61	<b>Free-Form Message</b>	O	AN	1/30	Used
		<b>Description:</b> Free-form information				

# L3 Total Weight and Charges

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 7

**User Option (Usage):** Used

To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

## 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>
L301	81	<b>Weight</b>	X	R	1/10	Used
		<b>Description:</b> Numeric value of weight				
L302	187	<b>Weight Qualifier</b>	X	ID	1/2	Used
		<b>Description:</b> Code defining the type of weight				
		<b>Code Name</b>				
		G Gross Weight				
L303	60	<b>Freight Rate</b>	X	R	1/9	Used
		<b>Description:</b> Rate that applies to the specific commodity				
L304	122	<b>Rate/Value Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code qualifying how to extend charges or interpret value				
		<b>Code Name</b>				
		MR Per Mile Per Vehicle Used Per Round Trip				
L305	58	<b>Charge</b>	O	N2	1/12	Used
		<b>Description:</b> For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified				
L311	80	<b>Lading Quantity</b>	O	N0	1/7	Used
		<b>Description:</b> Number of units (pieces) of the lading commodity				
L312	188	<b>Weight Unit Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code specifying the weight unit				
		<b>Code Name</b>				
		L Pounds				

## Syntax Rules:

1. P0102 - If either L301 or L302 is present, then the other is required.
2. P0304 - If either L303 or L304 is present, then the other is required.
3. P0910 - If either L309 or L310 is present, then the other is required.
4. C1201 - If L312 is present, then L301 is required.
5. P1415 - If either L314 or L315 is present, then the other is required.

## Semantics:

1. L305 is the total charges.



# SE Transaction Set Trailer

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

## 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>
SE01	96	<b>Number of Included Segments</b>	M	NO	1/10	Must use
		<b>Description:</b> Total number of segments included in a transaction set including ST and SE segments				
SE02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Must use
		<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

## Comments:

1. SE is the last segment of each transaction set.

# GE Functional Group Trailer

<b>Pos:</b>	<b>Max: 1</b>
<b>Not Defined - Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 2</b>

**User Option (Usage):** Must use

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

## 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>
GE01	97	<b>Number of Transaction Sets Included</b>	M	N0	1/6	Must use
		<b>Description:</b> Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				
GE02	28	<b>Group Control Number</b>	M	N0	1/9	Must use
		<b>Description:</b> Assigned number originated and maintained by the sender				

## Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

## Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

# IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

To define the end of an interchange of zero or more functional groups and interchange-related control segments

## 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>
IEA01	I16	<b>Number of Included Functional Groups</b>	M	N0	1/5	Must use
<b>Description:</b> A count of the number of functional groups included in an interchange						
IEA02	I12	<b>Interchange Control Number</b>	M	N0	9/9	Must use
<b>Description:</b> A control number assigned by the interchange sender						