

# 210 Motor Carrier Freight Details and Invoice - HDX

**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>
GS		Functional Group Header	M	1			Used

**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
060	N9	Reference Identification	O	300			Used

**LOOP ID - 0100****10**

110	N1	Name	O	1			Used
120	N2	Additional Name Information	O	1			Used
130	N3	Address Information	O	2			Used
140	N4	Geographic Location	O	1			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>
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**LOOP ID - 0400****9999**

120	LX	Assigned Number	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	M	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			Used

# GS Functional Group Header

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

User Option (Usage): Used

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> <b>Description:</b> Code identifying a group of application related transaction sets <b>Code Name</b> IM Motor Carrier Freight Details and Invoice (210, 980)	M	ID	2/2	Must use
GS02	142	<b>Application Sender's Code</b> <b>Description:</b> Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	<b>Application Receiver's Code</b> <b>Description:</b> Code identifying party receiving transmission. Codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	<b>Time</b> <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)	M	TM	4/8	Must use
GS06	28	<b>Group Control Number</b> <b>Description:</b> Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	<b>Responsible Agency Code</b> <b>Description:</b> Code used in conjunction with Data Element 480 to identify the issuer of the standard <b>Code Name</b> X Accredited Standards Committee X12	M	ID	1/2	Must use
GS08	480	<b>Version / Release / Industry Identifier Code</b> <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 <b>Code Name</b> 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	AN	1/12	Must use

## Semantics:

- GS04 is the group date.
- GS05 is the group time.
- 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:

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

## 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: 8

**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> <b>Description:</b> Identifying number assigned by issuer	M	AN	1/22	Must use
B303	145	<b>Shipment Identification Number</b> <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)	O	AN	1/30	Used
B304	146	<b>Shipment Method of Payment</b> <b>Description:</b> Code identifying payment terms for transportation charges <b>Code Name</b> CC Collect PP Prepaid (by Seller)	M	ID	2/2	Must use
B306	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use
B307	193	<b>Net Amount Due</b> <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	M	N2	1/12	Must use
B309	32	<b>Delivery Date</b> <b>Description:</b> Date for delivery of cargo to final consignee or to next mode expressed in format CCYYMMDD	X	DT	8/8	Used
B310	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>Code Name</b> 017 Estimated Delivery 035 Delivered	X	ID	3/3	Used
B311	140	<b>Standard Carrier Alpha Code</b> <b>Description:</b> Standard Carrier Alpha Code	M	ID	2/4	Must use

## Syntax:

1. P0910 - If either B309,B310 is present, then all are 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.

# 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> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use
		<b>Code Name</b> PO Purchase Order Number				
N902	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

## Syntax:

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

## Semantics:

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

# N1 Name

Pos: 110	Max: 1
Heading - Optional	
Loop: 0100	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> <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 SH Shipper	M	ID	2/3	Must use
N102	93	<b>Name</b> <b>Description:</b> Free-form name	X	AN	1/60	Used

## Syntax:

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

# N2 Additional Name Information

Pos: 120	Max: 1
Heading - Optional	
Loop: 0100	Elements: 1

**User Option (Usage):** Used

To specify additional names or those longer than 35 characters in length

## 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>
N201	93	<b>Name</b> Description: Free-form name	M	AN	1/60	Must use

# 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	<b>Address Information</b> Description: Address information	M	AN	1/55	Must use



# N4 Geographic Location

Pos: 140	Max: 1
Heading - Optional	
Loop: 0100	Elements: 3

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

## Syntax:

1. C0605 - If N406 is present, then all of N405 are 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.

# 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	<b>Assigned Number</b> Description: Number assigned for differentiation within a transaction set	M	N0	1/6	Must use

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

## Syntax:

1. P0304 - If either L503,L504 is present, then all are required
2. C0706 - If L507 is present, then all of L506 are required
3. P0809 - If either L508,L509 is present, then all are 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: 8

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> <b>Description:</b> Sequential line number for a lading item	O	N0	1/3	Used
L002	220	<b>Billed/Rated-as Quantity</b> <b>Description:</b> Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81	X	R	1/11	Used
L003	221	<b>Billed/Rated-as Qualifier</b> <b>Description:</b> Code identifying the type of quantity or value on which the rate or item pricing is based	X	ID	2/2	Used
		<b>Code Name</b> LC 100 Pounds				
L004	81	<b>Weight</b> <b>Description:</b> Numeric value of weight	X	R	1/10	Used
L005	187	<b>Weight Qualifier</b> <b>Description:</b> Code defining the type of weight	X	ID	1/2	Used
		<b>Code Name</b> F Deficit Weight G Gross Weight				
L008	80	<b>Lading Quantity</b> <b>Description:</b> Number of units (pieces) of the lading commodity	X	N0	1/7	Used
L009	211	<b>Packaging Form Code</b> <b>Description:</b> Code for packaging form of the lading quantity	X	ID	3/3	Used
		<b>Code Name</b> BDL Bundle BOX Box CRT Crate CTN Carton PCS Pieces PLT Pallet SKD Skid				
L011	188	<b>Weight Unit Code</b> <b>Description:</b> Code specifying the weight unit	O	ID	1/1	Used
		<b>Code Name</b> L Pounds				

## Syntax:

1. P0203 - If either L002,L003 is present, then all are required
2. P0405 - If either L004,L005 is present, then all are required
3. P0607 - If either L006,L007 is present, then all are required
4. P0809 - If either L008,L009 is present, then all are required
5. C1104 - If L011 is present, then all of L004 are required
6. P1315 - If either L013,L015 is present, then all are 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> <b>Description:</b> Sequential line number for a lading item	O	N0	1/3	Used
L102	60	<b>Freight Rate</b> <b>Description:</b> Rate that applies to the specific commodity	X	R	1/9	Used
L103	122	<b>Rate/Value Qualifier</b> <b>Description:</b> Code qualifying how to extend charges or interpret value	X	ID	2/2	Used
		<b>Code Name</b> FR Flat Rate MN Minimum PH Per Hundred (of Basic Unit)				
L104	58	<b>Charge</b> <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	X	N2	1/12	Used
L108	150	<b>Special Charge or Allowance Code</b> <b>Description:</b> Code identifying type of special charge or allowance	O	ID	3/3	Used
		<b>Code Name</b> DSC Discount FUE Fuel Charge HAZ Hazardous Cargo Charge PYS Priority Service Charge				

## Syntax:

1. P0203 - If either L102,L103 is present, then all are required
2. R040506 - At least one of L104,L105,L106 is required
3. P1415 - If either L114,L115 is present, then all are required
4. P1718 - If either L117,L118 is present, then all are 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 - Mandatory	
Loop: 0400	Elements: 5

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> <b>Description:</b> Sequential line number for a lading item	O	N0	1/3	Must use
L702	168	<b>Tariff Agency Code</b> <b>Description:</b> Code defining the tariff bureau or tariff publishing agent that governs the rates applied to this shipment	O	ID	1/4	Must use
L703	171	<b>Tariff Number</b> <b>Description:</b> Standard tariff number for the tariff which governs the rates applied to the commodity item(s)	O	AN	1/7	Must use
L704	172	<b>Tariff Section</b> <b>Description:</b> Number used as an extension of the basic tariff number to identify the rates published within specific sections of the tariff	O	AN	1/2	Used
L707	59	<b>Freight Class Code</b> <b>Description:</b> Code indicating generalized classification that applies to one or more items in the shipment, i.e., class 70, 77.5, etc.	O	AN	2/5	Used

## Semantics:

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

# 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> <b>Description:</b> Numeric value of weight	X	R	1/10	Used
L302	187	<b>Weight Qualifier</b> <b>Description:</b> Code defining the type of weight	X	ID	1/2	Used
		<b>Code Name</b> G Gross Weight				
L303	60	<b>Freight Rate</b> <b>Description:</b> Rate that applies to the specific commodity	X	R	1/9	Used
L304	122	<b>Rate/Value Qualifier</b> <b>Description:</b> Code qualifying how to extend charges or interpret value	X	ID	2/2	Used
		<b>Code Name</b> MN Minimum PH Per Hundred (of Basic Unit)				
L305	58	<b>Charge</b> <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	O	N2	1/12	Used
L311	80	<b>Lading Quantity</b> <b>Description:</b> Number of units (pieces) of the lading commodity	O	N0	1/7	Used
L312	188	<b>Weight Unit Code</b> <b>Description:</b> Code specifying the weight unit	O	ID	1/1	Used
		<b>Code Name</b> L Pounds				

## Syntax:

1. P0102 - If either L301,L302 is present, then all are required
2. P0304 - If either L303,L304 is present, then all are required
3. P0910 - If either L309,L310 is present, then all are required
4. C1201 - If L312 is present, then all of L301 are required
5. P1415 - If either L314,L315 is present, then all are 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> <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

## Comments:

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



# GE Functional Group Trailer

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

**User Option (Usage):** Used

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> <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	M	N0	1/6	Must use
GE02	28	<b>Group Control Number</b> <b>Description:</b> Assigned number originated and maintained by the sender	M	N0	1/9	Must use

## 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.

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