



856 Ship Notice/Manifest
MANUFACTURING PLANTS
Version: 004010

Document Control

Rev	Date	Author	Purpose for Change
1.0	Jan 7, 2007	Z. Belicajevic	Creation of Implementation Guide
1.1	Jun 1, 2007	S. Nagarajan	Updated NCM
1.2	Jun 22, 2007	S. Nagarajan	Updated example to be 4010 compliant (Version was wrong)
1.3	Aug 31, 2007	R. Heether	Updated "Must Use" / "Mandatory" Fields, added hard-coding note to REF ZZ segment, and added some comments for clarification
1.4	Aug 22, 2008	S. Nagarajan	Updated usage for loops in the TOC and added usage line in summary page for loops. SN1 in summary page updated to Must use
1.5	Aug 29, 2008	S. Nagarajan	MEA, TD1, TD5, TD3, TD4 Max usage changed to 1
1.6	Sept 16, 2008	S. Nagarajan	Added Benson plant code in the N1 ST-04
1.7	Jul 30, 2010	S. Nagarajan	1. Added N1 BY segment to send plant code 2. N1 ST segment now indicates actual ship-to Code 3. Allows for multiple TD1 Segments 4. Returnable container information added to LIN segment 5. Eliminated FOB segment as not required by backend systems 6. Update REF-LS Segment to represent the ship-unit (Transport Handling Unit) Mixed Load/Master Bar-Coded Label Serial Number.
1.8	Aug 12, 2010	S. Nagarajan	1. Finalized Spec 2. Added N3 and N4 to N1-SF loop 3. MEA02 max size = 2 4. TD101 min size = 5 5. TD5 field size fixed. 6. N1*02 changed to Must use 7. LIN03-Max 30, LIN15-Max 16, LIN17 Max 7 8. REF*PK at the detail level – REF01 Max 2 and REF02 Max 12. 9. CLD03 min 3 10. PRF01 size updated to 5/14
1.9	Aug 20, 2010	S. Nagarajan	1. Fixed error in example – LIN06, LIN08 and LIN09
1.10	Jan 4, 2012	R. Heether	Changed <u>minimum</u> field size for P. O. Number from 5 to 3 in the PRF01.
1.11	Dec 10, 2013	R. Heether	Added REF-CN Segment - Carrier's Reference Number (PRO/Invoice)
1.12	Mar 1, 2014	R. Heether	Updated Logo. Updated Example.
1.13	Aug 14, 2015	Brian Stone	Updated logo, added TOC, fixed formatting.
1.20	March 9, 2024	Scott Clemence	1. Updated Logo 2. Miscellaneous user note updates
1.21	August 26, 2024	Scott Clemence	User Note Update
1.30	May 22, 2025	Scott Clemence	TD3_03: Value "CN" → Container added to the list

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856

Ship Notice/Manifest

Functional Group=SH

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

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	BSN	Beginning Segment for Ship Notice	M	1			Must use
040	DTM	Date/Time Reference (Ship)	O	1			Must use
040	DTM	Date/Time Reference (Del.)	O	1			Must use

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>
LOOP ID - HL					1	C2/010L	Must Use
010	HL	Hierarchical Level (Shipment)	M	1		C2/010	Must use
080	MEA	Measurements	O	1			Used
110	TD1	Carrier Details (Quantity and Weight)	O	20			Must use
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1			Must use
130	TD3	Carrier Details (Equipment)	O	1			Used
140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	1			Used
150	REF	Reference Identification (PK)	O	1			Used
150	REF	Reference Identification (BM)	O	1			Must use
150	REF	Reference Identification (CN)	O	1			Must use
150	REF	Reference Identification (CSCN)	O	1			Must use
LOOP ID - N1					1		Must Use
220	N1	Name (BY – Buying Party)	O	1			Must use
LOOP ID - N1					1		Must Use
220	N1	Name (SF - Ship From)	O	1			Must use
240	N3	Address Information (SF)	O	2			Used
250	N4	Geographic Location (SF)	O	1			Used

<u>LOOP ID - N1</u>					<u>1</u>	<u>Must Use</u>
220	N1	Name (ST - Ship To)	O	1		Must use
240	N3	Address Information (ST)	O	2		Used
250	N4	Geographic Location (ST)	O	1		Used

<u>LOOP ID - HL</u>					<u>200000</u>	<u>C2/010L</u>	<u>Must Use</u>
010	HL	Hierarchical Level (Item)	M	1		C2/010	Must use
020	LIN	Item Identification	O	1			Must use
030	SN1	Item Detail (Shipment)	M	1			Must use
050	PRF	Purchase Order Reference	O	1			Must use
150	REF	Reference Identification (PK)	O	1			Used

<u>LOOP ID - CLD</u>					<u>200</u>	<u>Used</u>
170	CLD	Load Detail	O	1		Used
180	REF	Reference Identification (Mixed Load/Master Bar- Coded Label Serial Number)	O	200		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	CTT	Transaction Totals	O	1		N3/010	Must use
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:

3/010 Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Comments:

- 2/010L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
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User Note 1:

Please Note:

You will see some elements listed as "Optional" per ANSI X12 Standard ("Req" column), but are considered "Mandatory" ("Usage" column) per CNH's business rules.

User Note 2: EXAMPLE

```
ISA|00|      |00|      |01|123456789   |01|601943181   |100714|1327|U|00401|000035174|0|P|>
GS|SH|123456789|601943181|20100714|1327|15166|X|004010
ST|856|0086
BSN|00|82841536|20100714|2026
DTM|011|20100714|1327
DTM|017|20100716|1327
HL|1||S
MEA|PD|G|150|KG
TD1|CNT71|5
TD1|PLT71|3
TD5|B|2|STDF|LT|G012|_01_01
REF|PK|82841536
REF|BM|1306341892
REF|CN|123456789012345
REF|ZZ|CSCN
N1|BY|CNH INDUSTRIAL AMERICA LLC-BENSON PLANT|92|BN
N1|SF|TEST BEARING CO.|92|CL968
N3|140 13TH AVE
N4|RACINE|WI|53402|US
N1|ST|CNH INDUSTRIAL BENSON WAREHOUSE|92|BNWH
N3|140 30TH AVE SE
N4|BENSON|MN|56215|US
HL|2|1|I
LIN|00001|BP|242834A2|DR|D|VP|GRFD1 3/4 L/C A|||||RC|45|PE|1
SN1||5|EA
PRF|70075984|106BJ1525520
CLD|5|1|CNT71
REF|LS|S203612626
REF|LS|S203612625
REF|LS|S203612624
REF|LS|S203612623
REF|LS|S203612622
HL|3|1|I
LIN|00002|BP|86986542|DR|A|VP|YCJ-70|||||RC|51|PE|10
SN1||100|EA
PRF|70075984|106BJ1525520
CLD|10|10|CNT71
REF|LS|S203612627
HL|4|1|I
LIN|00003|BP|86999734|DR|C|VP|S1112 YZP|||||RC|100|PE|50
SN1||500|EA
PRF|70075984|106BJ1525520
CLD|10|50|CNT71
REF|LS|S203612628
HL|5|1|I
LIN|00004|BP|87444626|DR|C|VP|RCJC2 15/16|||||RC|45|PE|100
SN1||1000|EA
PRF|70075984|106BJ1525520
CLD|10|100|PLT71
REF|LS|S203612629
CTT|5
SE|49|0086
GE|1|15166
IEA|1|000035174
```

User Note 3:

Here is a table showing how some critical data elements which must be returned to CNH Industrial for everything to work properly

Business Data Element	CNH INBOUND 830	OUTBOUND to CNH 856 ASN	OUTBOUND to CNH 810 INVOICE
Plant Code	N104 WHERE N101 = 'BY'	N104 WHERE N101 = 'BY'	N104 WHERE N101 = 'BT'
Shipto Code/Unloading Point	N104 WHERE N101 = 'ST'	N104 WHERE N101 = 'ST'	N104 WHERE N101 = 'ST'
Vendor Code	N104 WHERE N101 = 'SU'	N104 WHERE N101 = 'SF'	N104 WHERE N101 = 'SU'

Here is an explanation of the above table

The CNH_PLANT_CODE (N104 WHERE N101 = 'BY') and CNH_SHIPTO_CODE (N104 WHERE N101 = 'ST') are separate and independent data elements and must be managed in your internal business system as separate and independent data elements. The relationship between CNH_PLANT_CODE and CNH_SHIPTO_CODE is a 1 TO MANY relationship where any given CNH_PLANT_CODE can and do have multiple SHIPTO_CODES and the same SHIPTO_CODE can be used by multiple plant codes. CNH Industrial does not use the N101 = 'BY' in a traditional sense. Traditionally, the N101 = 'BY' represents a purchasing legal entity, but in CNH's case, the N101 = 'BY' represents the CNH_PLANT_CODE. The CNH Industrial 830 document transmits legal entity information in the N1_02 WHERE N1_01 = 'BY'.

For CNH INDUSTRIAL what defines a unique SHIPTO_LOCATION (CUSTOMER_ACCOUNT_LOCATION) is the a combination of the CNH_PLANT_CODE and CNH_SHIPTO_CODE. In most major ERP business systems, what CNH Industrial provides as a CNH_PLANT_CODE functions like a CUSTOMER_SHIPTO_CODE and what CNH Industrial provides as a SHIPTO_CODE functions like a CUSTOMER_UNLOADING_POINT. Think of a customer unloading point as a separate dock or warehouse location which supports the CNH_PLANT_CODE. If your internal business system supports the CUSTOMER_UNLOADING_POINT concept, then this is the recommended configuration of your internal business system. If your internal business system does not support the CUSTOMER_UNLOADING_POINT concept, then the recommended configuration of the integration process between your EDI application and your internal business system is that the primary lookup to determine the correct customer account location be on a concatenation of the PLANT_CODE and SHIPTO_CODE separated by a value such as a TILDE, COMMA or UNDERSCORE. In your internal business system, setup your customer account locations as described, EDI does the lookup into your business system looking for this concatenated value to apply the 850 to the correct CUSTOMER_ACCOUNT_LOCATION and then for OUTBOUND documents such as ASN's and INVOICES, do a de-concatenate function and map to the correct N4 VALUE where N101 = 'BY' or N101 = 'ST'

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	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information All valid standard codes are used.	M	ID	2/2	Must use
ISA02	I02	Authorization Information Description: 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)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information All valid standard codes are used.	M	ID	2/2	Must use
ISA04	I04	Security Information Description: 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)	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	M	ID	2/2	Must use
ISA06	I06	Interchange Sender ID Description: 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	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
		Code Name				
		01 Duns (Dun & Bradstreet)				
ISA08	I07	Interchange Receiver ID Description: 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	M	AN	15/15	Must use

a receiving ID to route data to them

User Note 1:

CNH ISA_08 Production ID: "601943181"

CNH ISA_08 Test ID: "601943181TEST"

ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use				
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use				
ISA11	I10	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer All valid standard codes are used.	M	ID	1/1	Must use				
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>00401</td><td>Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997</td></tr></table>	<u>Code</u>	<u>Name</u>	00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	ID	5/5	Must use
<u>Code</u>	<u>Name</u>									
00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997									
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use				
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>0</td><td>No Acknowledgment Requested</td></tr></table>	<u>Code</u>	<u>Name</u>	0	No Acknowledgment Requested	M	ID	1/1	Must use
<u>Code</u>	<u>Name</u>									
0	No Acknowledgment Requested									
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information All valid standard codes are used.	M	ID	1/1	Must use				
ISA16	I15	Component Element Separator Description: 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	M		1/1	Must use				

GS Functional Group Header

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

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	Functional Identifier Code Description: Code identifying a group of application related transaction sets <u>Code</u> <u>Name</u> SH Ship Notice/Manifest (856)	M	ID	2/2	Must use
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners User Note 1: <i>CNH GS_03 Production ID: "601943181"</i> <i>CNH GS_03 Test ID: "601943181TEST"</i>	M	AN	2/15	Must use
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	Time Description: 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	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	Responsible Agency Code Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 All valid standard codes are used.	M	ID	1/2	Must use
GS08	480	Version / Release / Industry Identifier Code Description: 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	M	AN	1/12	Must use

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

<u>Code</u>	<u>Name</u>
004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

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	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must use
		Code Name				
		856 Ship Notice/Manifest				
ST02	329	Transaction Set Control Number Description: 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).

BSN Beginning Segment for Ship Notice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

To transmit identifying numbers, dates, and other basic data relating to 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>						
BSN01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>00</td><td>Original</td></tr><tr><td>05</td><td>Replace</td></tr></table>	<u>Code</u>	<u>Name</u>	00	Original	05	Replace	M	ID	2/2	Must use
<u>Code</u>	<u>Name</u>											
00	Original											
05	Replace											
BSN02	396	Shipment Identification Description: A unique control number assigned by the original shipper to identify a specific shipment User Note 1: <i>CNH Plants require a unique Shipment Identifier (SID) for a 12-month period. In addition, this SID should be referenced also on your invoice (810) in the REF_02 with REF_01 = "SI" (Header level REF segment). If CNH provided you with a SID on the pickup request, that SID needs to be used here.</i>	M	AN	2/30	Must use						
BSN03	373	Date Description: Date expressed as CCYYMMDD User Note 1: <i>856 (ASN) Creation Date</i>	M	DT	8/8	Must use						
BSN04	337	Time Description: 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) User Note 1: <i>856 (ASN) Creation Time</i>	M	TM	4/8	Must use						

Syntax Rules:

1. C0706 - If BSN07 is present, then BSN06 is required.

Semantics:

1. BSN03 is the date the shipment transaction set is created.

2. BSN04 is the time the shipment transaction set is created.
3. BSN06 is limited to shipment related codes.

Comments:

1. BSN06 and BSN07 differentiate the functionality of use for the transaction set.

User Note 1:

Example:

BSN|00|82841536|20100714|2026

DTM Date/Time Reference (Shipped)

Pos: 040	Max: 1
Heading - MANDATORY	
Loop: N/A	Elements: 3

User Option (Usage): Must use

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>
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time Code Name 011 Shipped	M	ID	3/3	Must use
DTM02	373	Date Description: Date expressed as CCYYMMDD User Note 1: <i>Date Shipped</i>	M	DT	8/8	Must use
DTM03	337	Time Description: 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) User Note 1: <i>Time Shipped - Local Time to Shipper</i>	M	TM	4/8	Must use

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

User Note 1:

Example:
DTM|011|20100714|1327

User Note 2:

This segment must be returned on the 810 INVOICE

DTM Date/Time Reference (Delivery)

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Must use

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>
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time Code Name 017 Estimated Delivery	M	ID	3/3	Must use
DTM02	373	Date Description: Date expressed as CCYYMMDD User Note 1: <i>Estimated Delivery Date</i>	M	DT	8/8	Must use
DTM03	337	Time Description: 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) User Note 1: <i>Estimated Delivery Time - Local to Receiver</i>	M	TM	4/8	Must use

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

User Note 1:

Example:

DTM|017|20100716|1327

Loop HL (Shipment Level)

Pos: 010	Repeat: 1
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

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	HL	Hierarchical Level (Shipment)	M	1		Must use
080	MEA	Measurements	O	40		Used
110	TD1	Carrier Details (Quantity and Weight)	O	20		Must use
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		Must use
130	TD3	Carrier Details (Equipment)	O	12		Used
140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		Used
150	REF	Reference Identification	O	1		Used
150	REF	Reference Identification	O	1		Must use
150	REF	Reference Identification	O	1		Must use
210	FOB	F.O.B. Related Instructions	O	1		Used
220		Loop N1	O		1	Must use
220		Loop N1	O		1	Must use

HL Hierarchical Level (Shipment)

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data 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>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure User Note 1: <i>"1" is used for this occurrence of the HL Segment at this Shipment Level</i>	M	AN	1/12	Must use
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure <u>Code</u> <u>Name</u> S Shipment	M	ID	1/1	Must use

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

User Note 1:

Example:
HL|1||S

MEA Measurements

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

User Option (Usage): Used

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA01	737	Measurement Reference ID Code Description: Code identifying the broad category to which a measurement applies <u>Code</u> <u>Name</u> PD Physical Dimensions	O	ID	2/2	Used
MEA02	738	Measurement Qualifier Description: Code identifying a specific product or process characteristic to which a measurement applies <u>Code</u> <u>Name</u> G Gross Weight	O	ID	1/1	Must use
MEA03	739	Measurement Value Description: The value of the measurement	X	R	1/20	Must use
MEA04	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	X	Comp		Must use
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <u>Code</u> <u>Name</u> KG Kilogram LB Pound	M	ID	2/2	Must use

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. C0504 - If MEA05 is present, then MEA04 is required.
3. C0604 - If MEA06 is present, then MEA04 is required.
4. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
5. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

User Note 1:

Example:
MEA|PD|G|150|KG

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

To specify the transportation details relative to commodity, weight, and quantity

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>
TD101	103	Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required User Note 1: <i>Use Packaging Code of the shipping unit (e.g. ten boxes on one pallet is specified as one pallet).</i> <i>All X12 standard codes can be used.</i> <u>Example:</u> PLT71 - Pallet CNT71 - All returnable containers MIX71 - Expendable/returnable mixed load BIN51 - Wire Mesh Bin BIN52 - Steel Bin COL52 - Steel Coil CRT71 - Crate RCK58 - Rack SKD71 - Skid	M	AN	5/5	Must Use
TD102	80	Lading Quantity Description: Number of units (pieces) of the lading commodity User Note 1: <i>Total number of containers in shipment.</i>	M	N0	1/7	Must Use

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108 is present, then the other is required.
5. P0910 - If either TD109 or TD110 is present, then the other is required.

User Note 1:

Example:
 TD1|CNT71|5
 TD1|PLT71|3

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Must Use

To specify the carrier and sequence of routing and provide transit time 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>
TD501	133	Routing Sequence Code Description: Code describing the relationship of a carrier to a specific shipment movement <u>Code</u> <u>Name</u> B Origin/Delivery Carrier (Any Mode)	M	ID	1/1	Must use
TD502	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) <u>Code</u> <u>Name</u> 2 Standard Carrier Alpha Code (SCAC)	M	ID	1/1	Must use
TD503	67	Identification Code Description: Code identifying a party or other code User Note 1: <i>Standard Carrier Alpha Code that identifies the carrier being used for the shipment.</i> User Note 2: <i>For a listing of CARRIER SCAC CODE, log into the CNH Supplier Portal www.supplier.cnh.com, navigate to Documents > EDI > Other Useful Information > TD5 and TDT050 Codes for ASN</i>	M	AN	2/4	Must use
TD504	91	Transportation Method/Type Code Description: Code specifying the method or type of transportation for the shipment User Note 1: A Air AC Air Charter AE Air Express D Parcel Post E Expedited Truck LT Less Than Trailer Load (LTL) M Motor (Common Carrier) O Containerized Ocean PD Parcel Delivery R Rail RC Rail, Less Than Carload RR Roadrailer SR Supplier Truck	C	ID	1/2	Used

VE Vessel, Ocean

TD505	387	Routing	X	AN	1/35	Used
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Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

User Note 1:

Please refer to your Pickup Notification on CSCN to determine Routing code

Syntax Rules:

1. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2. C0203 - If TD502 is present, then TD503 is required.
3. C0708 - If TD507 is present, then TD508 is required.
4. C1011 - If TD510 is present, then TD511 is required.
5. C1312 - If TD513 is present, then TD512 is required.
6. C1413 - If TD514 is present, then TD513 is required.
7. C1512 - If TD515 is present, then TD512 is required.

Semantics:

1. TD515 is the country where the service is to be performed.

Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

User Note 1:

Example:

TD5|B|2|STDF|LT|G012|_01_01

TD3 Carrier Details (Equipment)

Pos: 130	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

To specify transportation details relating to the equipment used by the carrier

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>
TD301	40	Equipment Description Code Description: Code identifying type of equipment used for shipment	X	ID	2/2	Must use
		Code Name				
		CN Container				
		RR Rail Car				
		TL Trailer (not otherwise specified)				
TD302	206	Equipment Initial Description: Prefix or alphabetic part of an equipment unit's identifying number	O	AN	1/4	Must use
TD303	207	Equipment Number Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	X	AN	1/10	Must use
		User Note 1: <i>Sea Container, Trailer or Rail Car Number</i>				

Syntax Rules:

1. E0110 - Only one of TD301 or TD310 may be present.
2. C0203 - If TD302 is present, then TD303 is required.
3. C0405 - If TD304 is present, then TD305 is required.
4. P0506 - If either TD305 or TD306 is present, then the other is required.

User Note 1:

Example:
TD3|TL|302|53830~

TD4 Carrier Details (Special Handling, or Hazardous Materials, or Both)

Pos: 140	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

To specify transportation special handling requirements, or hazardous materials information, or both

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>
TD401	152	Special Handling Code Description: Code specifying special transportation handling instructions All valid standard codes are used.	X	ID	2/3	Must use
TD402	208	Hazardous Material Code Qualifier Description: Code which qualifies the Hazardous Material Class Code (209) All valid standard codes are used.	X	ID	1/1	Must use
TD403	209	Hazardous Material Class Code Description: Code specifying the kind of hazard for a material	X	AN	1/4	Must use

Syntax Rules:

1. R010204 - At least one of TD401, TD402 or TD404 is required.
2. C0203 - If TD402 is present, then TD403 is required.

Semantics:

1. TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.

REF Reference Identification (Packing List – Header)

Pos: 150	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

To specify identifying 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>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/2	Must use
		Code Name				
		PK Packing List Number				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/12	Must use
		User Note 1: <i>Packing List Number is mandatory either at this (Shipment) Level or at the "Item" Level.</i>				
		<i>CNH uses this Packing list number to match the invoice to the receipt. It is imperative that the packing list number on the 856-ASN matches the packing list number on the 810-invoice and the paper work accompanying the shipment.</i>				

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

User Note 1:

If not provided in REF segment at the Shipment level (REF_01 = "PK"), Packing list must be present in REF segment at the Item level (HL loop with HL_03 = "I"). CNH prefers packing list number at this level (header).

User Note 2:

Example:

REF|PK|82841536

REF Reference Identification (Bill of Lading)

Pos: 150	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

To specify identifying 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>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/2	Must use
		Code Name				
		BM Bill of Lading Number				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Must use
		User Note 1: <i>Bill of Lading Number</i>				

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

User Note 1:

Example:
REF|BM|1306341892

REF	Reference Identification Carrier's Reference Number (PRO Invoice)	Pos: 150 Max: 1 Detail - Optional Loop: HL Elements: 2
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User Option (Usage): Must use

To specify identifying 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>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/2	Must use
		Code Name				
		CN Carrier's Reference Number (PRO/Invoice)				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/15	Must use
		User Note 1: <i>Carrier's PRO/Invoice Number</i>				

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

User Note 1:

Example:
REF|CN|123456789012345

REF Reference Identification (CSCN)

Pos: 150	Max: 1
Detail - MANDATORY	
Loop: HL	Elements: 2

User Option (Usage): Must use

To specify identifying 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>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/2	Must use
		Code Name ZZ Mutually Defined				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	4/4	Must use
		User Note 1: <i>CNH is sending this source value in the header section REF_02 field (with REF_01 = "ZZ") of their 830 message.</i> <i>This value is required to be returned here to allow CNH to perform the proper routing of the message. You may hard-code this segment as shown below:</i> <code>REF ZZ CSCN</code>				

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

User Note 1:

Example:
`REF|ZZ|CSCN`

User Note 2:

This segment MUST BE RETURNED on your 856 ASN document

Loop Name

Pos: 220	Repeat: 1
MANDATORY	
Loop: N1	Elements: N/A

User Option (Usage): Must use

Purpose: 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>
220	N1	Name (BY –Buying Party)	O	1		Must use

N1 Name (BY – Buying Party)

Pos: 220	Max: 1
Detail -	MANDATORY
Loop: N1	Elements: 4

User Option (Usage): Must use

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	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual <u>Code</u> <u>Name</u> BY Buying Party (Purchaser)	M	ID	2/2	Must use
N102	93	Name Description: Free-form name User Note 1: <i>The value of this field should be mapped from the N1_02 field with N1_01 = "BY" of the 830 Material Release Message.</i>	M	AN	1/60	Must Use
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) <u>Code</u> <u>Name</u> 92 Assigned by Buyer or Buyer's Agent	M	ID	2/2	Must use
N104	67	Identification Code Description: Code identifying a party or other code User Note 1: <i>The value of this field should be mapped from the N1_04 field with N1_01 = "BY" of the 830 Material Release message.</i> User Note 2: <i>For a list of valid CNH Plant Codes which your company supports, please refer to our website: www.supplier.cnh.com and log into the Delivery Schedules module.</i> User Note 3: <i>To receive a list of CNH plant codes which your company supports, please review CSCN Delivery Schedules</i>	M	AN	2/2	Must use

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.

User Note 1:

Example:

N1|BY|CNH INDUSTRIAL AMERICA LLC-BENSON PLANT|92|BN

Loop N1 (Ship From)

Pos: 220	Repeat: 1
MANDATORY	
Loop: N1	Elements: N/A

User Option (Usage): Must use

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>
220	N1	Name (Ship From)	O	1		Must use
240	N3	Address Information	O	2		Used
250	N4	Geographic Location	O	1		Used

N1 Name (SF – Ship From)

Pos: 220	Max: 1
Detail -	MANDATORY
Loop: N1	Elements: 4

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual <u>Code</u> <u>Name</u> SF Ship From	M	ID	2/2	Must use
N102	93	Name Description: Free-form name User Note 1: <i>Supplier Name</i>	M	AN	1/60	Must use
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) <u>Code</u> <u>Name</u> 92 Assigned by Buyer or Buyer's Agent	M	ID	2/2	Must use
N104	67	Identification Code Description: Code identifying a party or other code User Note 1: <i>All CNH facilities require your Supplier Code in this field.</i> <i>The value of this field should be mapped from the N1_04 field with N1_01 = "SU" of the 830 Material Release message. See User Note 1 below</i>	M	AN	4/8	Must use

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.

User Note 1:

Example:
 N1|SF|TEST BEARING CO.|92|CL968

N3 Address Information (Ship-From)

Pos: 240	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: 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

User Note 1:

Ship-From Street Address

N302	166	Address Information	O	AN	1/55	Used
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Description: Address information

User Note 1:

Ship-From Street Address - second line

User Note 1:

Example:

N3|140 13TH AVE

User Note 2:

Please include this segment on your ASN 856 document

N4 Geographic Location (Ship-From)

Pos: 250	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: 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	City Name	O	AN	2/30	Must Use
Description: Free-form text for city name User Note 1: <i>Ship-From City</i>						
N402	156	State or Province Code	O	ID	2/2	Used
Description: Code (Standard State/Province) as defined by appropriate government agency User Note 1: <i>Ship-From State or Province</i>						
N403	116	Postal Code	O	ID	3/15	Must Use
Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) User Note 1: <i>Ship-From Postal Code</i>						
N404	26	Country Code	O	ID	2/3	Must Use
Description: Code identifying the country User Note 1: <i>Ship-From Country Code</i>						

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.

User Note 1:

Example:
N4|RACINE|WI|53402|US

User Note 2:

Please include this segment on your ASN 856 document

Loop N1 (ST – Ship To)

Pos: 220	Repeat: 1
MANDATORY	
Loop: N1	Elements: N/A

User Option (Usage): Must use

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>
220	N1	Name (Ship To)	O	1		Must use
240	N3	Address Information (Ship To)	O	2		Used
250	N4	Geographic Location (Ship To)	O	1		Used

N1 Name (ST – Ship To)

Pos: 220	Max: 1
Detail -	MANDATORY
Loop: N1	Elements: 4

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual <u>Code</u> <u>Name</u> ST Ship To	M	ID	2/2	Must use
N102	93	Name Description: Free-form name User Note 1: <i>CNH Ship-to Location Name</i>	M	AN	1/60	Must use
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) <u>Code</u> <u>Name</u> 92 Assigned by Buyer or Buyer's Agent	M	ID	2/2	Must use
N104	67	Identification Code Description: Code identifying a party or other code User Note 1: <i>All CNH facilities require the Ship-To Code in this field. The value of this field should be mapped from the N1_04 field with N1_01 = "ST" of the 830 Material Release message</i> User Note 2: <i>Value will need to be returned on the 810 INVOICE document</i> User Note 3: <i>For a list of valid ship-to codes, please refer to our website: www.supplier.cnh.com Click on Documents > EDI > Other Useful Information > CNH Plant Ship To Addresses</i> User Note 4: <i>To receive a list of CNH SHIP TO CODES which your company supports, please review CSCN Delivery Schedules</i>	M	AN	2/5	Must use

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.

User Note 1:

Example:

N1|ST|CNH INDUSTRIAL BENSON WAREHOUSE|92|BNWH

User Note 2:

This segment will need to be returned on the 810 INVOICE message

N3 Address Information (ST)

Pos: 240	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

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 Description: Address information User Note 1: <i>Ship-To Street Address</i>	M	AN	1/55	Must use
N302	166	Address Information Description: Address information User Note 1: <i>Ship-To Street Address - second line</i>	O	AN	1/55	Used

User Note 1:

Example:
N3|140 30TH AVE SE

N4 Geographic Location (ST)

Pos: 250	Max: 1
Detail - Optional	
Loop: N1	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	City Name Description: Free-form text for city name User Note 1: <i>Ship-To City</i>	O	AN	2/30	Must Use
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency User Note 1: <i>Ship-To State or Province</i>	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) User Note 1: <i>Ship-To Postal Code</i>	O	ID	3/15	Must Use
N404	26	Country Code Description: Code identifying the country User Note 1: <i>Ship-To Country Code</i>	O	ID	2/3	Must Use

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.

User Note 1:

Example:

N4|BENSON|MN|56215|US

Loop HL (Item Level)

Pos: 010	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

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	HL	Hierarchical Level (Item)	M	1		Must use
020	LIN	Item Identification	O	1		Must use
030	SN1	Item Detail (Shipment)	M	1		Must Use
050	PRF	Purchase Order Reference	O	1		Must use
150	REF	Reference Identification	O	1		Used
170		Loop CLD	O		200	Used

HL Hierarchical Level (Item)

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data 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>				
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure User Note 1: <i>The first hierarchy (“Shipment” Level HL segment on Page 14) will have a value of ‘1’, and each subsequent hierarchy within the transaction needs to be incremented by 1 at this “Item” Level; i.e., 2, 3, 4.</i>	M	AN	1/12	Must use				
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to User Note 1: <i>A ‘1’ is required here at this “Item Level” referring to the Parent (“Shipment” level)</i>	M	AN	1/12	Must use				
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>I</td><td>Item</td></tr></table>	<u>Code</u>	<u>Name</u>	I	Item	M	ID	1/1	Must use
<u>Code</u>	<u>Name</u>									
I	Item									

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

User Note 1:

Example:
HL|2|1|I

LIN Item Identification

Pos: 020	Max: 1
Detail - MANDATORY	
Loop: HL	Elements: 7

User Option (Usage): Must use

To specify basic item identification 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>
LIN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set User Note 1: <i>Purchase Order Line Number</i> User Note 2: <i>Value to return here must exactly match what you received in the source 830, field LIN_01</i>	O	AN	1/5	Must use
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code</u> <u>Name</u> BP Buyer's Part Number	M	ID	2/2	Must use
LIN03	234	Product/Service ID Description: Identifying number for a product or service User Note 1: <i>CNH's Part Number</i> User Note 2: <i>Value to return here MUST EXACTLY MATCH the CNH PART NUMBER which you received in the source 830 document,</i>	M	AN	1/30	Must use
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code</u> <u>Name</u> DR Drawing Revision Number	X	ID	2/2	Used
LIN05	234	Product/Service ID Description: Identifying number for a product or service User Note 1: <i>Drawing Revision</i>	X	AN	1/3	Used
LIN06	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code</u> <u>Name</u> VP Vendor's (Seller's) Part Number	X	ID	2/2	Used
LIN07	234	Product/Service ID Description: Identifying number for a product	X	AN	1/48	Used

or service

User Note 1:*Supplier's Part Number*

LIN14	235	Product/Service ID Qualifier	X	ID	2/2	Used
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

<u>Code</u>	<u>Name</u>
RC	Returnable Container Number

LIN15	234	Product/Service ID	X	AN	1/16	Used
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Description: Identifying number for a product or service

User Note 1: *Returnable container number is the number used for a specific container in the container management system*

LIN16	235	Product/Service ID Qualifier	X	ID	2/2	Used
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 477, Included: 1)

<u>Code</u>	<u>Name</u>
PE	Pieces

LIN17	234	Product/Service ID	X	AN	1/7	Used
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Description: Identifying number for a product or service

User Note 1: *Represents the standard pack quantity for the returnable container*

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

Comments:

1. See the Data Dictionary for a complete list of IDs.
2. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

User Note 1:

PLEASE LIST PART NUMBERS ON YOUR 856 IN THE SAME ORDER AS THEY ARE ON YOUR PAPER PACK SLIP.

User Note 2:

Example:

LIN|00001|BP|242834A2|DR|D|VP|GRFD1 3/4 L/C A|||||RC|45|PE|1

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use

To specify line-item detail relative to shipment

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>
SN102	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set User Note 1: <i>Total Number of units shipped</i>	M	R	1/10	Must use
SN103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken User Note 1: <i>The value of this field should be mapped from the UIT_01 field of the 830 Material Release message</i>	M	ID	2/2	Must use

Syntax Rules:

1. P0506 - If either SN105 or SN106 is present, then the other is required.

Semantics:

1. SN101 is the ship notice line-item identification.

Comments:

1. SN103 defines the unit of measurement for both SN102 and SN104.

User Note 1:

Example:
 SN1||100|EA

User Note 2:

SN1_02 (Total Pieces Shipped) = CLD_01 (Number of Containers) multiplied by CLD_02 (Quantity Per Container)

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - MANDATORY	
Loop: HL	Elements: 2

User Option (Usage): Must use

To provide reference to a specific purchase order

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>
PRF01	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser User Note 1: <i>The value of this field should be mapped either from the BFR_11 field (if present) or LIN_13 with LIN_12 = "PO" of the 830 Material Release message</i> User Note 2: <i>Value represents the CNH Purchase Order Number which you are shipping against</i>	M	AN	3/14	Must use
PRF02	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Used

Semantics:

1. PRF04 is the date assigned by the purchaser to purchase order.

User Note 1:

Example:
 PRF|70075984|106BJ1525520

REF Reference Identification (Packing List – Item Level)

Pos: 150	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

To specify identifying 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>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification <u>Code</u> <u>Name</u> PK Packing List Number	M	ID	2/2	Must use
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier User Note 1: <i>Packing List Number is mandatory either at this (Item) level, or at the Shipment Level.</i> <i>If the Packing List Number provided at this (Item) level, it must be present for each item.</i> <i>CNH uses this Packing list number to match the invoice to the receipt. It is imperative that the packing list number on the 856-ASN matches the packing list number on the 810-invoice and the paper work accompanying the shipment.</i>	M	AN	1/12	Must use

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Loop CLD

Pos: 170	Repeat: 200
Optional	
Loop: CLD	Elements: N/A

User Option (Usage): Used

To specify the number of material loads shipped

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>
170	CLD	Load Detail	O	1		Used
180	REF	Reference Identification (Mixed Load/Master Bar-Coded Label Serial Number)	O	200		Used

CLD Load Detail

Pos: 170	Max: 1
Detail - Optional	
Loop: CLD	Elements: 3

User Option (Usage): Used

To specify the number of material loads shipped

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>
CLD01	622	Number of Loads Description: Number of customer-defined loads shipped by the supplier User Note 1: <i>Total number of containers for this line item</i>	M	N0	1/5	Must use
CLD02	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set User Note 1: <i>Total quantity per container for this line item</i>	M	R	1/10	Must use
CLD03	103	Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required User Note 1: <i>All X12 standard codes can be used.</i> Example: BOX71 - Expendable Box CNT71 - Returnable Container RCK58 - Rack CRT71 - Crate BIN51 - Wire Mesh Bin BIN52 - Steel Bin COL52 - Steel Coil	M	AN	5/5	Must use

Syntax Rules:

1. C0504 - If CLD05 is present, then CLD04 is required.

Semantics:

1. CLD05 is used to dimension the value given in CLD04.

Comments:

1. The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar code labels.

User Note 1:

The CLD segment represents actual part containers and the quantity per container.

1. If the part containers are loaded individually on the truck without a pallet, the CLD segment should be followed by multiple REF segments with REF_01 = "LS". There should be as many REF segments as the value of the CLD-01.
2. If the part containers are palletized, then there should be only one REF Segment with REF_01 = "LS".

User Note 2:

Example 1: 5 CNT71 containers loaded individually on the truck

CLD|5|1|CNT71
REF|LS|S203612626
REF|LS|S203612625
REF|LS|S203612624
REF|LS|S203612623
REF|LS|S203612622

Example 2: 10 CNT71 containers are shrink wrapped on a pallet and the pallet is loaded on the truck.

CLD|10|10|CNT71
REF|LS|S203612627

User Note 3:

CLD_01 (Number of Containers) multiplied by CLD_02 (Quantity Per Container) = SN1_02 (Total Pieces Shipped)

REF Reference Identification

(Mixed Load/Master Bar-Coded Label Serial Number)

Pos: 180	Max: 200
Detail - Optional	
Loop: CLD	Elements: 2

User Option (Usage): Used

To specify identifying 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>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/2	Must use
		Code Name				
		LS Bar-Coded Serial Number				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	10/10	Must use
		User Note 1: <i>This number must be the ship-unit (Transport Handling Unit) Mixed Load/Master Bar-Coded Label Serial Number.</i>				
		<i>The maximum length of the serial number is 9 characters plus the 1 character Data Identifier for a maximum of 10 characters.</i>				
		<i>The Mixed Load/Master Label Serial Number cannot be duplicated within a twelve-month period.</i>				
		EXAMPLES: REF*LS*G000063120 REF*LS*M000012340				

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

User Note 1:

The CLD segment represents actual part containers and the quantity per container.

1. If the part containers are loaded individually on the truck without a pallet, the CLD segment should be followed by multiple REF segments with REF_01 = "LS". There should be as many REF segments as the value of the CLD-01.
2. If the part containers are palletized, then there should be only one REF Segment with REF_01 = "LS".

User Note 2:

Example 1: 5 CNT71 containers loaded individually on the truck

CLD|5|1|CNT71

REF|LS|S203612626

REF|LS|S203612625

REF|LS|S203612624

REF|LS|S203612623

REF|LS|S203612622

Example 2: 10 CNT71 containers are shrink wrapped on a pallet and the pallet is loaded on the truck.

CLD|10|10|CNT71

REF|LS|S203612627

CTT Transaction Totals

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

User Option (Usage): Must use

To transmit a hash total for a specific element 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>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set User Note 1: <i>Total number of HL Segments</i>	M	N0	1/6	Must use

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

User Note 1:

Example:
CTT|5

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	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	Transaction Set Control Number Description: 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): 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	Number of Transaction Sets Included Description: 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	Group Control Number Description: 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.

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