856 Ship Notice/Manifest

X12 Version 4010

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11/03/2014	3.1	Added TD5 05 Routing element (carrier's name)	*RH*
11/13/2014	3.2	Removed TD5 06 Shipment/Order Status Code	*RH*
12/03/2016	3.3	Corrected Typographical errors Clarified MAN segment usage/requirements	DRG

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856 Ship Notice/Manifest

Functional Group=SH

The 856 ASN is the electronic representation of the supplier's physical shipment. The 856 uses hierarchal loops (HLs) to represent the physical shipment in electronic form. Hierarchal loops can be designated with a function by assigning the HL segment hierarchal level code HL03 to a specific value. The HL03 values used in the Advance Auto Parts implementation are S, E, O, T, P, and I.
HL03 Explanations:

- *S = HL Shipment (Advance Auto Parts requires one HLS per 856)*
- *E = HL Equipment (Optional, used for Ocean moves). Child of the HLS.*
- *O = HL Order (as Orders on the shipment, the HLO loops would repeat as children of the HLS or HLE)*
- *T = HL Tare (Pallet level, Child of the Order)*
- *P = HL Pack (Case level, Child of the Order or Tare) * Not used if Pack is sent as the child of a Tare*
- *I = HL Line Item (The individual item being shipped. Child of the Order, Tare or Pack).*

To conserve space this guidelines does not explicitly list all eight HL combinations accepted but does refer to them in notes. In summery the eight acceptable HL configurations are:

HL: S-E-O-T-P-I
HL: S-E-O-T-I
HL: S-E-O-P-I
*HL: S-E-O-I * This format is valid only for loose item shipments (An item shipped loose or in a non-standard container such as a drum) When used it must contain a MAN segment at item level denoting the UCC128 license plate number assigned.*
HL: S-O-T-P-I
HL: S-O-T-I
HL: S-O-P-I
*HL: S-O-I * This format is valid only for loose item shipments (An item shipped loose or in a non-standard container such as a drum) When used it must contain a MAN segment at item level denoting the UCC128 license plate number assigned).*

NOTES:

1) All Shipments for Advance Auto Parts require ASNs (DC, Store and Drop ship to consumer)

Enveloping:

Page	Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
3		ISA	Interchange Control Header	M	1			Must use
5		GS	Functional Group Header	M	1			Must use

Heading:

Page	Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
6	010	ST	Transaction Set Header	M	1			Must use
7	020	BSN	Beginning Segment for Ship Notice	M	1			Must use
8	040	DTM	Date/Time Reference	O	10			Must use

Detail:

Page	Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
9	**LOOP ID - HLS**					**1**		
10	010	HL	Hierarchical Level	M	1		C2/010	Must use
11	110	TD1	Carrier Details (Quantity and Weight)	O	20			Recommended
12	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1			Must use
13	150	REF	Reference Identification	O	>1			Must use
14	**LOOP ID - N1**					**200**		
15	220	N1	Name	O	1			Must use

Page	Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
16	**LOOP ID - HLE**					**20000**		

Page	Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
17	010	HL	Hierarchical Level	M	1		C2/010	Must use
18	**LOOP ID - TD3**					**12**		
19	130	TD3	Carrier Details (Equipment)	O	1			Used
20	150	REF	Reference Identification	O	>1			Used
21	**LOOP ID - HLO**					**200000**		
22	010	HL	Hierarchical Level	M	1		C2/010	Must use
23	050	PRF	Purchase Order Reference	O	1			Must use
24	150	REF	Reference Identification	O	>1			Recommended
25	**LOOP ID - HLT**					**200000**		
26	010	HL	Hierarchical Level	M	1		C2/010	Must use
27	190	MAN	Marks and Numbers	M	>1			Must use
28	**LOOP ID - HLP**					**200000**		
29	010	HL	Hierarchical Level	M	1		C2/010	Must use
30	190	MAN	Marks and Numbers	O	>1			Used
31	**LOOP ID - HLI**					**200000**		
32	010	HL	Hierarchical Level	M	1		CN2/010	Must use
33	020	LIN	Item Identification	O	1			Must use
34	030	SN1	Item Detail (Shipment)	O	1			Must use
35	190	MAN	Marks and Numbers	O	>1			Used

Summary:

Page	Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
36	010	CTT	Transaction Totals	O	1		N3/010	Used
37	020	SE	Transaction Set Trailer	M	1			Must use

Enveloping:

Page	Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
38		GE	Functional Group Trailer	M	1			Must use
39		IEA	Interchange Control Trailer	M	1			Must use

ISA Interchange Control Header

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

User Option (Usage): Must use
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Must use
ISA02	I02	**Authorization Information**	M	AN	10/10	Must use
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Must use
ISA04	I04	**Security Information**	M	AN	10/10	Must use
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use
ISA06	I06	**Interchange Sender ID**	M	AN	15/15	Must use
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use
		Code / **Name** 01 / Duns (Dun & Bradstreet)				
ISA08	I07	**Interchange Receiver ID**	M	AN	15/15	Must use
		The Advance Auto Parts Interchange IDs are: *Production: 007941529* *Test: 007941529T*				
ISA09	I08	**Interchange Date**	M	DT	6/6	Must use
ISA10	I09	**Interchange Time**	M	TM	4/4	Must use
ISA11	I10	**Interchange Control Standards Identifier**	M	ID	1/1	Must use
ISA12	I11	**Interchange Control Version Number**	M	ID	5/5	Must use
		Code / **Name** 00401 / Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997				
ISA13	I12	**Interchange Control Number**	M	N0	9/9	Must use
		The control number in this data element must be identical to the control number provided in the associated Interchange Control Trailer (IEA02)				
ISA14	I13	**Acknowledgment Requested**	M	ID	1/1	Must use
		Code / **Name** 0 / No Acknowledgment Requested				

ISA15	I14	**Usage Indicator**	M	ID	1/1	Must use

Code	**Name**
P	Production Data
T	Test Data

ISA16	I15	**Component Element Separator**	M		1/1	Must use

Type	*HEX*	*ASCII*
Data Element Separator	*2A*	*
Segment Terminator	*7E*	~
Component Element Separator	*3C*	<

GS Functional Group Header

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

User Option (Usage): Must use
Purpose: To indicate the beginning of a functional group and to provide control information

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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code**	M	ID	2/2	Must use
		Code / **Name** SH / Ship Notice/Manifest (856)				
GS02	142	**Application Sender's Code**	M	AN	2/15	Must use
GS03	124	**Application Receiver's Code**	M	AN	2/15	Must use
		The Advance Auto Parts GS IDs are: *Production: 007941529* *Test: 007941529T*				
GS04	373	**Date**	M	DT	8/8	Must use
GS05	337	**Time**	M	TM	4/8	Must use
GS06	28	**Group Control Number**	M	N0	1/9	Must use
		The control number in this data element must be identical to the control number provided in the associated functional group trailer (GE02).				
GS07	455	**Responsible Agency Code**	M	ID	1/2	Must use
		Code / **Name** X / Accredited Standards Committee X12				
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	Must use
		Code / **Name** 004010 / Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997				

ST Transaction Set Header

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

User Option (Usage): Must use
Purpose: To indicate the start of a transaction set and to assign a control number

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).

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Must use
		Code / **Name** 856 / Ship Notice/Manifest				
ST02	329	**Transaction Set Control Number**	M	AN	4/9	Must use
		The control number in this data element must be identical to the control number provided in the associated transaction set trailer (SE02).				

BSN Beginning Segment for Ship Notice

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

User Option (Usage): Must use
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN01	353	**Transaction Set Purpose Code**	M	ID	2/2	Must use
		Code **Name** 00 Original				
BSN02	396	**Shipment Identification**	M	AN	2/30	Must use
		ASN number must be associated to the entire shipment and must be unique for at least 180 days after shipment.				
BSN03	373	**Date**	M	DT	8/8	Must use
		Date expressed as CCYYMMDD				
BSN04	337	**Time**	M	TM	4/8	Must use

DTM Date/Time Reference

Pos: 040	Max: 10
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Must use
Purpose: To specify pertinent dates and times

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.

An occurrence of DTM with Shipped Date [DTM01 = 011] is required.
Current Scheduled Delivery Date [DTM01 = 067] is beneficial if available.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use
		Code / **Name** 011 Shipped 067 Current Schedule Delivery				
DTM02	373	**Date**	X	DT	8/8	Used
		Date expressed as CCYYMMDD				
DTM03	337	**Time**	X	TM	4/8	Used

Loop Hierarchical Level

Pos: 010 **Repeat: 1**
Mandatory
Loop: HLS **Elements: N/A**

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

The first HL segment in the transaction should be at the shipment level and only occur once.

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		Must use
110	TD1	Carrier Details (Quantity and Weight)	O	20		Recommended
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1		Must use
150	REF	Reference Identification	O	>1		Must use
220		Loop N1	O		200	Must use
010		Loop HLE	O		20000	Used
010		Loop HLO	O		200000	Must use

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HLS	Elements: 4

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Used
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use
		Code **Name** S Shipment				
HL04	736	**Hierarchical Child Code**	O	ID	1/1	Not used

TD1 Carrier Details (Quantity and Weight)

Pos: 110 **Max: 20**
Detail - Optional
Loop: HLS **Elements: 5**

User Option (Usage): Recommended
Purpose: To specify the transportation details relative to commodity, weight, and quantity

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0607 - If TD106 is present, then TD107 is required.
3. P0708 - If either TD107 or TD108 is present, then the other is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD101	103	**Packaging Code**	O	AN	3/5	Used
		While any valid X12 code may be sent, the following are preferred: *CTN Carton* *MXD Mixed* *PLT Pallet* *UNT Unit*				
TD102	80	**Lading Quantity**	X	N0	1/7	Used
		This value represents the number of handling units included in the shipment. A handling unit is the largest container that will be moved as a unit - pallet, carton, or loose line item. For example: if a shipment has all line items containerized on pallets only the pallets would be counted as handling units. Please see the AAP Supplier EDI Barcode Shipping Label guide section 4.0 for further clarification. *When pallets are shipped, each pallet must contain two copies of the same License Plate (LP) with a scannable barcode.(see AAP Supplier EDI Barcode Shipping Label guide for proper placement)* *Advance Auto Parts will accept the Lading Quantity as an integer value up to 5 digits.*				
TD106	187	**Weight Qualifier**	O	ID	1/2	Used
		While any valid X12 code may be sent, the following is preferred: *G Gross Weight*				
TD107	81	**Weight**	X	R	1/10	Used
TD108	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used
		While any valid X12 code may be sent, the following are preferred: *GR Gram* *KG Kilogram* *LB Pound*				

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120 **Max: 1**
Detail - Optional
Loop: HLS **Elements: 5**

User Option (Usage): Must use
Purpose: To specify the carrier and sequence of routing and provide transit time information

Syntax Rules:

1. C0203 - If TD502 is present, then TD503 is required.
2. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.

At least one iteration where the TD502="2" is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD501	133	**Routing Sequence Code**	O	ID	1/2	Used
		While any valid X12 code may be sent, the following are preferred: *B Origin/Delivery Carrier (Any Mode)*				
TD502	66	**Identification Code Qualifier**	X	ID	1/2	Must use
		While any valid X12 code may be sent, the following are preferred: *2 Standard Carrier Alpha Code (SCAC)*				
TD503	67	**Identification Code**	X	AN	2/80	Must use
		Advance Auto Parts will accept a value up to 30 characters.				
TD504	91	**Transportation Method/Type Code**	X	ID	1/2	Used
		While any valid X12 code may be sent, the following are preferred: *D Parcel Post* *M Motor (Common Carrier)* *ZZ Mutually Defined*				
TD505	387	**Routing**	X	AN	1/35	Used

REF Reference Identification

Pos: 150	Max: >1
Detail - Optional	
Loop: HLS	Elements: 2

User Option (Usage): Must use
Purpose: To specify identifying information

Syntax Rules:

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

A minimum of one iteration of the REF segment per transaction is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use
		While any valid X12 code may be sent, one the following is required: *BM Bill of Lading Number* *CN Carrier's Reference Number (PRO/Invoice) used for Web orders or small parcels*				
REF02	127	**Reference Identification**	X	AN	1/50	Used
		Advance Auto Parts will accept a Bill of Lading Number up to 30 characters. The BOL number should be unique for a period of 180 days.				

Loop Name

Pos: 220	Repeat: 200
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Must use
Purpose: To identify a party by type of organization, name, and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
220	N1	Name	O	1		Must use

N1 Name

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

User Option (Usage): Must use
Purpose: To identify a party by type of organization, name, and code

Syntax Rules:

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

One iteration where N101 = "ST" and N104 = a DC #, store # or web store # is required.

One iteration where N101 = "SF" and N104 = The location ID for the shipping facility that the goods are departing from (not the trade partner ID) is recommended.

One iteration where N101 = "VN" and N104 = the Vendor ID provided in the 850 PO is recommended.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use
		While Ship To is required ,Ship From and Vendor# are recommended: *SF Ship From* *ST Ship To* *VN Vendor*				
N102	93	**Name**	X	AN	1/60	Used
N103	66	**Identification Code Qualifier**	M	ID	1/2	Must use
		While any valid X12 code may be sent, the following is recommended: *91 Assigned by Seller or Seller's Agent* *92 Assigned by Buyer or Buyer's Agent*				
N104	67	**Identification Code**	M	AN	2/80	Must use
		Advance Auto Parts will accept value of up to 10 characters length in this field. *When N101 = ST, the N104 must be a valid Advance Auto Parts assigned DC or Store Number as provided on purchase order.* *Any order shipped directly to the consumer should reflect a ship-to location (N104) of "1020" as sent in the P/O.* *When N101 = SF The N104 should reflect the location id for the shipping facility. This is beneficial for vendors shipping from multiple locations.*				

Loop Hierarchical Level

Pos: 010 Repeat: 20000
Optional
Loop: HLE Elements: N/A

User Option (Usage): Used
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

The HLE loop is optional.

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		Must use
130		Loop TD3	O		12	Used
150	REF	Reference Identification	O	>1		Used

HL Hierarchical Level

Pos: 010 **Max: 1**
Detail - Mandatory
Loop: HLE **Elements: 4**

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

When the HLE loop is used this segment is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Must use
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use
		Code / **Name** E / Transportation Equipment				
HL04	736	**Hierarchical Child Code**	O	ID	1/1	Not used

Loop Carrier Details (Equipment)

Pos: 130 **Repeat: 12**
Optional
Loop: TD3 **Elements: N/A**

User Option (Usage): Used
Purpose: To specify transportation details relating to the equipment used by the carrier

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
130	TD3	Carrier Details (Equipment)	O	1		Used

TD3 Carrier Details (Equipment)

Pos: 130	Max: 1
Detail - Optional	
Loop: TD3	Elements: 4

User Option (Usage): Used
Purpose: To specify transportation details relating to the equipment used by the carrier

Syntax Rules:

1. C0203 - If TD302 is present, then TD303 is required.

This segment is optional.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD301	40	**Equipment Description Code**	X	ID	2/2	Not used
TD302	206	**Equipment Initial**	O	AN	1/4	Used
TD303	207	**Equipment Number**	X	AN	1/15	Used
TD309	225	**Seal Number**	O	AN	2/15	Used

REF Reference Identification

Pos: 150	Max: >1
Detail - Optional	
Loop: HLE	Elements: 2

User Option (Usage): Used
Purpose: To specify identifying information

Syntax Rules:

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

This segment is optional.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier** *While any valid X12 code may be sent, the following is recommended* *SN Seal Number*	M	ID	2/3	Must use
REF02	127	**Reference Identification** *The first seal number should be provided in the TD3 segment. Use the REF segment for additional seal numbers if needed.*	X	AN	1/50	Used

Loop Hierarchical Level

Pos: 010 **Repeat: 200000**
Optional
Loop: HLO **Elements: N/A**

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		Must use
050	PRF	Purchase Order Reference	O	1		Must use
150	REF	Reference Identification	O	>1		Recommended
010		Loop HLT	O		200000	Used
010		Loop HLP	O		200000	Used
010		Loop HLI	O		200000	Must use

HL Hierarchical Level

Pos: 010 **Max: 1**
Detail - Mandatory
Loop: HLO **Elements: 4**

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

If an HLE is present, the HLO must be nested within the HLE. If the HLE is not present the HLO must be nested as a child of the HLS.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Must use
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use
		Code **Name** O Order				
HL04	736	**Hierarchical Child Code**	O	ID	1/1	Not used

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Optional	
Loop: HLO	Elements: 3

User Option (Usage): Must use
Purpose: To provide reference to a specific purchase order

Semantics:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PRF01	324	**Purchase Order Number**	M	AN	1/22	Must use
		This field should contain the Buyer's PO number which can be found: *For EDI Purchase Orders, In the BEG03 element* *For manual orders (phone, fax, or email), the PO number must be obtained from the buyer and provided in the PRF01.* *If more than one PO is on the shipment all the POs must have the same final destination.*				
PRF02	328	**Release Number**	O	AN	1/30	Used
		When the release number is issued on the PO Change Request it must be returned on the ASN.				
PRF04	373	**P/O Date**	O	DT	8/8	Used

REF Reference Identification

Pos: 150	Max: >1
Detail - Optional	
Loop: HLO	Elements: 2

User Option (Usage): Recommended
Purpose: To specify identifying information

Syntax Rules:

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

Semantics:

1.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use
		Code / **Name** PK / Packing List Number				
REF02	127	**Reference Identification**	X	AN	1/50	Must use
		Advance Auto Parts will accept a Packing Slip Number up to 30 characters. *The Pack Slip number should be different from the header REF tracking/BOL number and the BSN02 Shipment ID (ASN Number).*				

Loop Hierarchical Level

Pos: 010 **Repeat: 200000**
Optional
Loop: HLT **Elements: N/A**

User Option (Usage): Used
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		Must use
190	MAN	Marks and Numbers	M	>1		Must use

HL Hierarchical Level

Pos: 010 **Max: 1**
Detail - Mandatory
Loop: HLT **Elements: 4**

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

User Note 1:

1. *When the HLT (Tare) loop is used to indicate a Pallet.*

2. *For Pick and Pack, the HLT loop is nested under the HLO loop. It may contain nested HLP or HLI loops.*

```
HLS                    HLS                    HLS                    HLS
  HLE                    HLE                    HLO                    HLO
    HLO        or          HLO        or          HLT        or          HLT
      HLT                    HLT                    HLP                    HLI
        HLP                    HLI                    HLI
          HLI
```

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Must use
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use
		Code **Name** T Shipping Tare				
HL04	736	**Hierarchical Child Code**	O	ID	1/1	Not used

MAN Marks and Numbers

Pos: 190 **Max: >1**
Detail - Mandatory
Loop: HLT **Elements: 2**

User Option (Usage): Must use
Purpose: To indicate identifying marks and numbers for shipping containers

1. Use the HLT:MAN when the highest handling unit is a pallet.

2. The HLT:MAN barcode number can repeat in the same 856 message when more than one order is loaded on the same pallet.

3. When the HLT:MAN is used any child level HLP:MAN and HLI:MAN segments will be ignored . If the HLT loop is not used a HLP:MAN or HLI:MAN is required.

Example:
*HL*8*3*T*
*MAN*AI*00106862260024599671*

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	**Marks and Numbers Qualifier**	M	ID	1/2	Must use
		Acceptable qualifiers are: *AI UCC/EAN-128 Application Identifier (AI) and Data* *GM SSCC-18 and Application Identifier*				
MAN02	87	**Marks and Numbers**	M	AN	20/20	Must use
		This License Plate (LP) number should be a unique 20 digit identifier for the handling unit, in human-readable text, with a field length of 18 characters plus 2 leading 0's indicating the Serial Shipping Container Code. *The scannable barcode LP number on the Pallet will be used for receiving DC shipments.* *This LP number must be unique for at least 180 days after shipment.*				

Loop Hierarchical Level

Pos: 010 **Repeat: 200000**
Optional
Loop: HLP **Elements: N/A**

User Option (Usage): Used
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		Must use
190	MAN	Marks and Numbers	O	>1		Used

HL Hierarchical Level

Pos: 010 **Max: 1**
Detail - Mandatory
Loop: HLP **Elements: 4**

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

The HLP (Pack) loop is used to indicate pack information. For Pick and Pack, the HLP loop is nested under the HLT (Tare) loop nested under the HLO (Order) loop. If the optional HLT is absent the HLP is nested directly under the HLO and becomes the largest handling unit.

```
HLS                    HLS                    HLS                    HLS
  HLE                    HLE                    HLO                    HLO
    HLO        or          HLO        or          HLT        or          HLP
      HLT                    HLP                    HLP                    HLI
        HLP                    HLI                    HLI
          HLI
```

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Must use
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use
		Code / **Name** P / Pack				
HL04	736	**Hierarchical Child Code**	O	ID	1/1	Not used

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Optional	
Loop: HLP	Elements: 2

User Option (Usage): Used
Purpose: To indicate identifying marks and numbers for shipping containers

1. Use the HLP:MAN when the highest handling unit is a carton.

2. The HLP:MAN barcode can repeat in the same 856 message when more than one order is loaded in the same carton.

3. When the HLT:MAN is absent and the HLP:MAN is used the HLI:MAN will be ignored and should not be sent. If the HLT and HLP loops are not used a HLI:MAN is required.

Example:
*HL*8*3*P*
*MAN*AI*00106862260024599671*

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	**Marks and Numbers Qualifier**	M	ID	1/2	Must use
		Acceptable qualifiers are: *AI UCC/EAN-128 Application Identifier (AI) and Data* *GM SSCC-18 and Application Identifier*				
MAN02	87	**Marks and Numbers**	M	AN	20/20	Must use
		This License Plate (LP) number should be a unique identifier for the handling unit, in human-readable text, with a field length of 18 characters plus 2 leading 0's indicating the Serial Shipping Container Code. *The scannable barcode LP number on the Carton will be used for receiving DC shipments.* *This LP number must be unique for at least 180 days after shipment.*				

Loop Hierarchical Level

Pos: 010 **Repeat: 200000**
Optional
Loop: HLI **Elements: N/A**

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		Must use
020	LIN	Item Identification	O	1		Must use
030	SN1	Item Detail (Shipment)	O	1		Must use
190	MAN	Marks and Numbers	O	>1		Used

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HLI	Elements: 4

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Must use
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use
		Code **Name** I Item				
HL04	736	**Hierarchical Child Code**	O	ID	1/1	Not used

LIN Item Identification

Pos: 020 **Max: 1**
Detail - Optional
Loop: HLI **Elements: 9**

User Option (Usage): Must use
Purpose: To specify basic item identification data

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.

Semantics:

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN01	350	**Assigned Identification**	O	AN	1/20	Must use
LIN02	235	**Product/Service ID Qualifier**	M	ID	2/2	Must use
		Code / **Name** BP / Buyer's Part Number				
LIN03	234	**Product/Service ID**	M	AN	1/48	Must use
		This field contains the Buyer's Part Number form the PO.				
LIN04	235	**Product/Service ID Qualifier**	X	ID	2/2	Must use
		Code / **Name** VP / Vendor's (Seller's) Part Number				
LIN05	234	**Product/Service ID**	X	AN	1/48	Must use
		This field contains the Vendor's (Seller's) Part Number				
LIN06	235	**Product/Service ID Qualifier**	X	ID	2/2	Must use
		Code / **Name** PL / Purchaser's Order Line Number				
LIN07	234	**Product/Service ID**	X	AN	1/48	Must use
		This field contains the PO Line Number				
LIN08	235	**Product/Service ID Qualifier**	X	ID	2/2	Used
LIN09	234	**Product/Service ID**	X	AN	1/48	Used
		This field contains the U.P.C Consumer Package Code (1-5-5-1)				

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HLI	Elements: 4

User Option (Usage): Must use
Purpose: To specify line-item detail relative to shipment

Semantics:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN101	350	**Assigned Identification**	O	AN	1/20	Used
SN102	382	**Number of Units Shipped**	M	R	1/10	Must use
		Any item with a quantity of zero will be assumed cancelled by Advance Auto Parts. Zero ship lines should be included in the ASN.				
SN103	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use
		While any valid X12 code may be sent, the following is preferred: *EA Each*				
SN104	646	**Quantity Shipped to Date**	O	R	1/15	Must use
		Number of units shipped to date				

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Optional	
Loop: HLI	Elements: 2

User Option (Usage): Used
Purpose: To indicate identifying marks and numbers for shipping containers

Semantics:

If the HLT and HLP loops are not used, use the HLI:MAN when the handling unit is a loose line item (not in a container).
This could be an oversized part such as a drum. In which case the label is applied directly. The scannable barcode LP number on the loose item will be used for receiving DC shipments.

The man at this level is not used to identify loose carton(s).

ASN item level structure example:

*HL*8*3*I*
*LIN*1*BP*9090009*VP*CP7527*UP*021467075271*
*SN1*1*28*EA*28*
*MAN*AI*00106862260024599671*

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	**Marks and Numbers Qualifier**	M	ID	1/2	Must use
		Acceptable qualifiers are: *AI UCC/EAN-128 Application Identifier (AI) and Data* *GM SSCC-18 and Application Identifier*				
MAN02	87	**Marks and Numbers**	M	AN	20/20	Must use
		This License Plate (LP) number should be a unique identifier for the handling unit, in human-readable text, with a field length of 18 characters plus 2 leading 0's indicating the Serial Shipping Container Code. *The scannable barcode LP number on the Item will be used for reference.* *This LP number must be unique for at least 180 days after shipment.*				

CTT Transaction Totals

Pos: 010 **Max: 1**
Summary - Optional
Loop: N/A **Elements: 2**

User Option (Usage): Used
Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items**	M	N0	1/6	Must use
		When CTT is present, this must be the count of LIN segments contained in the ASN.				
CTT02	347	**Hash Total**	O	R	1/10	Used
		This is the total number of items on the shipment				

SE Transaction Set Trailer

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

User Option (Usage): Must use
Purpose: 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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments**	M	N0	1/10	Must use
		Total number of segments included in a transaction set including ST and SE segments				
SE02	329	**Transaction Set Control Number**	M	AN	4/9	Must use
		The control number in this data element must be identical to the control number provided in the associated ST Control Header (ST02)				

GE Functional Group Trailer

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

User Option (Usage): Must use
Purpose: To indicate the end of a functional group and to provide control information

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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6	Must use
GE02	28	**Group Control Number**	M	N0	1/9	Must use
		The control number in this data element must be identical to the control number provided in the associated GS Control Header (GS02)				

IEA Interchange Control Trailer

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

User Option (Usage): Must use
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5	Must use
IEA02	I12	**Interchange Control Number**	M	N0	9/9	Must use
		The control number in this data element must be identical to the control number provided in the associated Interchange Control Header (ISA02)				