



EDI SPECIFICATIONS

ANSI X12 856

Advance Shipping Notice

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Advanced Shipping Notice (856)

INTRODUCTION

This convention provides the format and establishes the data contents of an Advanced Shipping Notice (856) transaction set. The advance shipping notice transaction set provides information indicating the supplier has shipped a specific part/order. The 856 will incorporate shipment information such as a shipment date, shipment quantity, and box serial numbers that will give MPC vital shipment information. The following MPC formats are similar to AIAG Version 004010.

IMPLEMENTATION GUIDELINES FOR EDI CONVENTIONS

MESSAGE STRUCTURE

SEG ID	NAME	REQ	MAX USE
HEADER			
ISA	Interchange Control Header	M	1
GS	Functional Group Header	M	1
ST	Transaction Set Header	M	1
BSN	Beginning Segment for Advance Shipping Notice	M	1
DTM	Date/Time Reference (Shipment Date)	M	1
DTM	Date/Time Reference (Estimated Arrival Date)	M	1
HL	Hierarchical Level (Shipment)	M	1
MEA	Measurements	O	1
TD5	Carrier Details (Routing Sequence/Transit Time)	O	1
TD3	Carrier Details (Trailer Number)	M	1
N1 LOOP			
N1	Party Identification	M	1
DETAILS			
ITEM LOOP			
HL	Hierarchical Level (Item)	M	1
LIN	Item Identification	M	1
SN1	Item Detail	M	1
PRF	Purchase Order Reference	M	1
BOX LOOP			
REF	Reference Information (Box Serial)	M	2000
TRAILER			
SE	Transaction Set Trailer	M	1
GE	Functional Group Trailer	M	1
IEA	Interchange Control Trailer	M	1

ISA Interchange Control Header

Heading

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

Example: ISA*00* *00* *01*VENDORABC *ZZ*063515605PUR *
 A B C D E F G H
 070306*1748*U*00401*000000003*0*P*>~
 I J K L M N O P

REF	ELEM ID	ELEM#	Name	REQ	TYPE	M/M	REMARKS
A	ISA01	744	Authorization Info qualifier	M	ID	02/02	00 (No Authorization Information Present)
B	ISA02	745	Authorization Info	M	AN	10/10	10 Spaces
C	ISA03	746	Security Info Qualifier	M	ID	02/02	00 (No Security Information Present)
D	ISA04	747	Security Info	M	AN	10/10	10 Spaces
E	ISA05	704	Interchange ID Qualifier	M	ID	02/02	Vendor's Interchange ID Qualifier
F	ISA06	705	Interchange sender ID	M	AN	15/15	Vendor's Interchange Code
G	ISA07	704	Interchange ID Qualifier	M	ID	02/02	ZZ (mutually defined)
H	ISA08	705	Interchange receiver ID	M	ID	15/15	063515605PUR (MPC's ISA code, justified and space filled)
I	ISA09	373	Date	M	DT	06/06	Date of Transmission
J	ISA10	337	Time	M	TM	04/04	Time of Transmission
K	ISA11	726	Interchange Standards ID	M	ID	01/01	U (United States)
L	ISA12	703	Interchange Version ID	M	ID	05/05	00401
M	ISA13	709	Interchange Control Number	M	NO	09/09	Unique control number. Same as IEA02
N	ISA14	749	Acknowledge Requested	M	ID	01/01	0 (No Acknowledgment Requested)
O	ISA15	748	Test Indicator	M	ID	01/01	P (Production)
P	ISA16	701	Subelement Separator	<u>M</u>	<u>ID</u>	<u>01/01</u>	<u>></u>

GS Functional Group Header

Heading

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

Example: GS*SH*VENDORABC*063515605PUR*20070306*1748*000000003*X*004010~
 A B C D E F G H

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	GS01	479	Functional ID	M	ID	02/02	SH (Ship Notice)
B	GS02	142	Application Sender ID	M	ID	02/15	Vendor's GS Code
C	GS03	124	Application Receiver ID	M	ID	02/15	063515605PUR (MPC's GS Code)
D	GS04	029	Data Interchange Date	M	DT	08/08	Date of Transmission
E	GS05	030	Data Interchange Time	M	TM	04/08	Time of Transmission
F	GS06	028	Data Interchange Number	M	NO	01/09	Unique control number. Same as GE02
G	GS07	455	Responsibility Agency	M	ID	01/02	X (Accredited Standards Committee X12)
H	GS08	480	Version	M	ID	01/12	004010

ST Transaction Set Header

Heading

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

Example: ST*856*000000003~
 A B

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	ST01	143	Transaction Set ID Code	M	ID	03/03	856 (Advance Shipping Notice)
B	ST02	329	Transaction Set Control Number	M	ID	04/09	Unique control number. Same as SE02

BSN Beginning Segment for Ship Notice

Heading

To transmit identifying numbers, dates, and other basic data relating to the transaction set.

Example: BSN*05*85872*20070306*1748~
 A B C D

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	BSN01	353	Transaction Set Purpose Code	M	ID	02/02	05 (Replace)
B	BSN02	396	Shipment Identification	M	AN	02/30	Unique Shipment ID (Packing Slip #)
C	BSN03	373	Issue Date	M	DT	08/08	Date ASN was created (YYYYMMDD)
D	BSN04	337	Issue Time	M	TM	04/08	Time ASN was created (24 Hour)

DTM Date/Time Reference

Heading

To specify pertinent dates and times.

Example: DTM*011*20070306*1746~
 A B C

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	DTM01	374	Date/Time Qualifier	M	ID	03/03	011 (Date Shipped)
B	DTM02	373	Date	M	DT	08/08	Date of shipment (YYYYMMDD)
C	DTM03	337	Time	M	TM	04/08	Time of shipment (24 Hour)

Segment: **DTM** Date/Time Reference

Level: Heading

Purpose: To specify pertinent dates and times.

Example: DTM*017*20070306*1746~
 A B C

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	DTM01	374	Date/Time Qualifier	M	ID	03/03	017 (Estimated Arrival Date)
B	DTM02	373	Date	M	DT	08/08	Estimated Arrival Date (YYYYMMDD)
C	DTM03	337	Time	M	TM	04/08	Estimated Arrival Time (24 Hour)

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Segment: **HL** Hierarchical Level

Level: Heading

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

Example: HL*1**S~
A B

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	HL01	628	Hierarchical ID Number	M	AN	01/12	Unique number assigned by sender
	HL02	373	Hierarchical Parent ID Number	O	AN	01/12	Not used
B	HL03	735	<u>Hierarchical Level Code</u>	<u>M</u>	<u>ID</u>	<u>01/02</u>	S (Shipment)

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Segment: **MEA** Measurements

Level: Heading

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.

Example: MEA*PD*G*1404*LB~
A B C D

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	MEA01	737	Measurement Ref. ID Code	O	ID	02/02	PD (Physical Dimensions)
B	MEA02	738	Measurement Qualifier	O	ID	01/03	G (Gross Weight)
C	MEA03	739	Measurement Value	X	R	01/20	Total weight of shipment
D	MEA04	C001	Unit of Measure	X	ID	02/02	LB (Pounds)

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Segment: **TD5** Carrier Details

Level: Heading

Purpose: To specify the carrier and sequence of routing and provide transit time information.

Example: TD5*B*2*1234~
A B C

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	TD501	133	Routing Sequence Code	O	ID	01/02	B (Origin/Delivery Carrier)
B	TD502	66	Identification Code Qualifier	X	ID	01/02	2 (SCAC Code)
C	TD503	67	Identification Code	X	AN	02/80	Carrier's SCAC Code

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Segment: **TD3** Carrier Details

Level: Heading

Purpose: To specify the carrier trailer number.

Example: TD3****1234~

A

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
	TD301	133	Routing Sequence Code	O	ID	01/02	Not used
	TD302	66	Identification Code Qualifier	X	ID	01/02	Not used
A	TD303	67	<u>Identification Code</u>	<u>X</u>	<u>AN</u>	<u>02/80</u>	Trailer Number

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Segment: **N1** Name
Level: Heading
Purpose: To identify a party by type of organization, name, and code

Example: N1*ST**92*057174658~ Ship To
 A B C
 N1*Sf**92*40207~ Ship From
 A B C

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	N101	98	Entity Identifier Code	M	ID	02/03	ST (Ship To) SF (Ship From)
	N102	93	Name	X	AN	01/60	Not Used
B	N103	66	Identification Code Qualifier	X	ID	01/02	92 (Assigned by Buyer)
C	N104	67	Identification Code	X	AN	02/80	If N101 = ST, Ship To Location Code If N101 = SF, Ship From Location Code

Segment: **HL** Hierarchical Level

Level: Detail

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

Example: HL*2*1*I~
A B C

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	HL01	628	Hierarchical ID Number	M	AN	01/12	Unique number assigned by sender
B	HL02	373	Hierarchical Parent ID Number	O	AN	01/12	ID of the parent HL segment
C	HL03	735	Hierarchical Level Code	M	ID	01/02	I (Item)

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LIN Item Identification

Detail

To specify basic item identification data

LIN**BP*84KHP51~

A B

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
	LIN01	350	Assigned Identification	O	AN	01/20	Not Used
A	LIN02	235	Product/Service ID Qualifier	M	ID	02/02	BP (Buyer's Part Number)
B	LIN03	234	Product/Service ID	M	AN	01/48	Buyer's Part Number

Note: If parts are not all in the same pack size a separate LIN – SN1 – PRF- REF loop should be sent for each pack size.

Example: CS1234A shipped in 1 box of 500 and 2 boxes of 250.

LIN**BP*CS1234A~
 SN1**500*EA~
 PRF*34369~
 REF*LS*AB003054~
 HL*3*1*I~
 LIN**BP*CS1234A~
 SN1**500*EA~
 PRF*34369~
 REF*LS*AB003055~
 REF*LS*AB003056~

SN1 Item Detail (Shipment)

Detail

To specify line-item detail relative to Shipment.

SN1**500*EA~

A B

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
	SN101	350	Assigned Identification	O	AN	01/20	Not Used
A	SN102	382	Number of Units Shipped	M	R	01/10	Total quantity shipped
B	SN103	355	Unit of Measurement code	M	ID	02/02	Unit of Measure

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PRF Purchase Order Reference

Detail

To provide reference to a specific purchase order.

PRF*34369~

A

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	PRF01	324	Purchase Order Number	M	AN	01/22	MPC's PO number

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Segment: REF Reference Information

Detail

To specify the reference information.

REF*LS*AB003054~

A B

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	REF01	128	Reference Id Qualifier	M	ID	02/02	LS (Bar-Coded Serial)
B	REF02	127	Reference Identification	M	AN	01/8	Box/Carton Serial Number

Notes:

- 1) This segment is mandatory.
- 2) Serial number must start with one or two digit vendor code provided by MPC followed by a five or six digit unique number.
- 3) Serial number must be 8 digits in length. Must not repeat in a 12 month period.

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Segment: **SE** Transaction Set Trailer

Level: Summary

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).

Example: SE*34*000000003~
 A B

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	SE01	96	Number of Included Segments	M	NO	01/10	Total Records ST-SE
B	SE02	329	Transaction Set Control Number	M	AN	04/09	Unique Control Number (Same as ST02)

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Segment: **GE** Functional Group Trailer

Level: Summary

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

Example: GE*1*000000003~
 A B

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	GE01	97	Number of Transaction Sets	M	NO	01/06	Total number of Transaction Sets
B	GE02	28	Group Control Number	M	NO	01/09	Unique Control Number (Same as GS06)

Segment: IEA Interchange Control Trailer

Level: Summary

Purpose: To define the end of an interchange of one or more functional groups and interchange related control segments

Example: IEA*1*000000003~
A B

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	IEA01	116	Number of Functional Groups	M	NO	01/05	Total number of Functional Groups
B	IEA02	28	Interchange Control Number	M	NO	09/09	Unique Control Number (Same as ISA13)

856 DOCUMENT EXAMPLE

ISA*00* *00* *01*VENDORABC *ZZ*063515605PUR *070306*1748*U*00401*000000003*0*P*>~
GS*SH*VENDORABC*063515605PUR*20070306*1748*000000003*X*004010~
ST*856*000000003~
BSN*05*85872*20070306*1748~
DTM*011*20070306*1746~
DTM*017*20070307*0800~
HL*1**S~
MEA*PD*C*1404*LB~
TD5*B*02*1234~
TD3***12345678~
N1*ST*MPC*92*057174658~
N1*SF*VENDORABC.*92*40207~
HL*2*1*I~
LIN**BP*84KHP51~
SN1**500*EA~
PRF*34369~
REF*LS*AB003054~
HL*3*1*I~
LIN**BP*82ELH99~
SN1**200*EA~
PRF*34369~
REF*LS*AB003055~
REF*LS*AB003056~
REF*LS*AB003057~
HL*4*1*I~
LIN**BP*VR1233A~
SN1**800*EA~
PRF*34369~
REF*LS*AB003058~
REF*LS*AB003059~
SE*29*000000003~
GE*1*000000003~
IEA*1*000000003~