



EDI SPECIFICATIONS

ANSI X12 856

Advance Shipping Notice



Contact:

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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, pallet, carton, and ESN serial numbers that will provide vital shipment information. The following Tribar 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	M	1
HL	Hierarchical Level (Shipment)	M	1
MEA	Measurements	O	1
TD5	Carrier Details (Routing Sequence/Transit Time)	O	1
N1 LOOP			
N1	Party Identification	M	1
DETAILS			
PALLET LOOP			
HL	Hierarchical Level (Pallet)	M	1
REF	Reference Information (Pallet Serial)	M	1
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			
CLD	Load Detail	O	200
REF	Reference Information (Box Serial)	M	200
TRAILER			
SE	Transaction Set Trailer	M	1
GE	Functional Group Trailer	M	1
IEA	Interchange Control Trailer	M	1



Segment: **ISA Interchange Control Header**

Level: Heading

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

Example: ISA*00* *00* *01*VENDORABC *01*1234567890 *
 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	Tribar's Interchange ID Qualifier
H	ISA08	705	Interchange receiver ID	M	ID	15/15	Tribar'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	M	ID	01/01	>



Segment: **GS** Functional Group Header

Level: Heading

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

Example: GS*SH*VENDORABC*6363439220*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	Tribar'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



Segment: **ST** Transaction Set Header

Level: Heading

Purpose: 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



Segment: **BSN** Beginning Segment for Ship Notice

Level: Heading

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

Example: BSN*00*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	00 (New) 05 (Replacement)
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)



Segment: **DTM** Date/Time Reference
Level: Heading
Purpose: 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: **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	Hierarchical Level Code	M	ID	01/02	S (Shipment)



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)



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



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*P~
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	P (Pallet)



Segment: REF Reference Information
Level: Detail
Purpose: To specify the reference information.

Example: REF*LA*AB0002199~
 A B

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	REF01	128	Reference Id Qualifier	X	ID	02/02	LA (Shipping Label)
B	REF02	127	Reference Identification	X	AN	01/30	Pallet (Parent) Serial Number

Note: The first two characters will be provided by Tribar. Serial numbers (Pallet and cartons) must start with these two characters. Pallet Serial Numbers should not be transmitted without child Serial Labels in the Item Loop.



Segment: **HL** Hierarchical Level
Level: Detail
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments.

Example: HL*3*2*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)



Segment: **LIN** Item Identification
Level: Detail
Purpose: To specify basic item identification data

Example: LIN**VN*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	VN (Vendor's Part Number)
B	LIN03	234	Product/Service ID	M	AN	01/48	Vendor's Part Number



Segment: **SN1** Item Detail (Shipment)
Level: Detail
Purpose: To specify line-item detail relative to Shipment.

Example: 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



Segment: **PRF** Purchase Order Reference
Level: Detail
Purpose: To provide reference to a specific purchase order.
Example: PRF*34369~
A

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



Segment: **CLD** Load Detail
Level: Detail
Purpose: To specify the number of material loads shipped.

Example: CLD*2*12*SKD90**EA~
A B C D

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	CLD01	622	Number of Containers	X	NO	01/05	Number of Containers Shipped
B	CLD01	382	Number of Units Shipped per Container	X	NO	01/05	Quantity Shipped per Container
C	CLD01	103	Packaging Code	X	NO	01/10	
	CLD04		NOT USED	X	NO	0/0	NOT USED
D	CLD02	355	Unit of Measurement Code	X	NO	02/02	Must be the unit of measure code received on the order transaction (850 or 830).

Note: If no CLD segment is provided the carton qty will be calculated by dividing the shipped qty (SN1) per item by the amount of serial numbers.



Segment: REF Reference Information
Level: Detail
Purpose: To specify the reference information.
Example: REF*LS*AB0003054~
 A B

REF	ELEM ID	ELEM#	NAME	REQ	TYPE	M/M	REMARKS
A	REF01	128	Reference Id Qualifier	X	ID	02/02	LS (Bar-Coded Serial)
B	REF02	127	Reference Identification	X	AN	01/09	Box/Carton Serial Number

Note: The first two characters will be provided by Tribar. Serial numbers (Pallet and cartons) will have to be start with these two characters. These are the serial numbers associated to the item referenced in the above LIN segment.

Note 2: Serial numbers longer than 9 characters will not be accepted by Tribar. If a serial number will be reaching this limit, please contact Tribar immediately.



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)



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	16	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

Multiple Items on a Single Pallet

ISA*00* *00* *01*VENDORABC *01*6363439220 *070306*1748*U*00401*000000003*0*P*>~
GS*SH*VENDORABC*6363439220*20070306*1748*000000003*X*004010~
ST*856*000000003~
BSN*00*85872*20070306*1748~
DTM*011*20070306*1746~
HL*1**S~
MEA*PD*G*1404*LB~
TD5*B*02*1234~
N1*ST*IQMS*92*057174658~
N1*SF*VENDORABC.*92*40207~
HL*2*1*P~
REF*LA*AB0002199~
HL*3*2*I~
LIN**VN*84KHP51~
SN1**500*EA~
PRF*34369~
REF*DK*WHSE~
REF*LS*AB0003054~
HL*4*2*I~
LIN**VN*82ELH99~
SN1**200*EA~
PRF*34369~
REF*DK*WHSE~
CLD*2*75*SKD90**EA~
REF*LS*AB0003055~
REF*LS*AB0003056~
CLD*1*50*SKD90**EA~
REF*LS*AB0003057~
HL*5*1*P~
REF*LA*AB0002200~
HL*6*5*I~
LIN**VN*VR1233A~
SN1**800*EA~
PRF*34369~
REF*DK*WHSE~
REF*LS*AB0003058~
REF*LS*AB0003059~
SE*34*000000003~
GE*1*000000003~
IEA*1*000000003~



Non-Palletized Shipments

ISA*00* *00* *01*VENDORABC *01*6363439220 *070306*1748*U*00401*000000003*0*P*>~
GS*SH*VENDORABC*6363439220*20070306*1748*000000003*X*004010~
ST*856*000000003~
BSN*00*85872*20070306*1748~
DTM*011*20070306*1746~
HL*1**S~
MEA*PD*G*1404*LB~
TD5*B*02*1234~
N1*ST*IQMS*92*057174658~
N1*SF*VENDORABC.*92*40207~
HL*2*1*P~
HL*3*2*I~
LIN**VN*84KHP51~
SN1**500*EA~
PRF*34369~
REF*DK*WHSE~
REF*LS*AB0003054~
SE*34*000000003~
GE*1*000000003~
IEA*1*000000003~