

862 Shipping Schedule

Functional Group ID=**SS**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Shipping Schedule Transaction Set (862) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a customer to convey precise shipping schedule requirements to a supplier, and is intended to supplement the planning schedule transaction set (830). The shipping schedule transaction set will supersede certain shipping and delivery information transmitted in a previous planning schedule transaction, but it does not replace the 830 transaction set. The shipping schedule transaction set shall not be used to authorize labor, materials or other resources. The use of this transaction set will facilitate the practice of Just-In-Time (JIT) manufacturing by providing the customer with a mechanism to issue precise shipping schedule requirements on a more frequent basis than with the issuance of a planning schedule transaction, e.g., daily shipping schedules versus weekly planning schedules. The shipping schedule transaction also provides the ability for a customer location to issue shipping requirements independent of other customer locations when planning schedule transactions are issued by a consolidated scheduling organization.

Heading:

<u>Adient Attributes</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Base Attributes</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BSS	Beginning Segment for Shipping Schedule/Production Sequence	M	1		
LOOP ID - N1						4	
Must Use	050	N1	Name	O	1		
	100	PER	Administrative Communications Contact	O	1		

Detail:

<u>Adient Attributes</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Base Attributes</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - LIN						10000	
M	010	LIN	Item Identification	M	1		
M	020	UIT	Unit Detail	M	1		
	050	REF	Reference Identification	O	3		
Must Use	070	SDP	Ship/Delivery Pattern	O	1		
LOOP ID - FST						100	
Must Use	080	FST	Forecast Schedule	O	1		
LOOP ID - SHP						2	
Must Use	140	SHP	Shipped/Received Information	O	1		
	150	REF	Reference Identification	O	1		

Summary:

<u>Adient Attributes</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Base Attributes</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	CTT	Transaction Totals	O	1		n1
M	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The number of lines items (CTT01) is the accumulation of number of LIN segments. If used, hash total (CTT02) is the sum of the value of the quantities (FST01) for each FST segment.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Business Rules: Variable Name: STST
Notes: **Data Examples**

ST*862*35950001~

Data Element Summary

<u>User</u>	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	ST01	143 Transaction Set Identifier Code Code uniquely identifying a Transaction Set 862 Shipping Schedule	M ID 3/3
M	ST02	329 Transaction Set Control Number 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

Segment: **BSS** Beginning Segment for Shipping Schedule/Production Sequence
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes: 1 At least one of BSS07 or BSS08 is required.
Semantic Notes: 1 Use BSS02 to indicate a document number.
 2 Use BSS03 to indicate the date of this document.
 3 Use BSS05 to indicate the schedule horizon start date (the date when the schedule begins).
 4 Use BSS06 to indicate the schedule horizon end date (the date when the schedule ends).
 5 BSS08 is the identifying number for a forecast assigned by the orderer/purchaser.

Comments:

Notes: **Data Examples**

BSS*05*20180108-001*20180108*DL*20180108*20180119*20180108-001****A~

Data Element Summary

<u>User</u>	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	BSS01	353 Transaction Set Purpose Code Code identifying purpose of transaction set 05 Replace	M ID 2/2
M	BSS02	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Adient Notes: This field will contain the Adient ship schedule number. The format of the ship schedule number will be CCYYMMDD-###. If multiple ship schedules are generated on the same day, each ship schedule will have a unique ship schedule suffix number.	M AN 1/30
M	BSS03	373 Date Date expressed as CCYYMMDD Adient Notes: Schedule Creation Date	M DT 8/8
M	BSS04	675 Schedule Type Qualifier Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast DL Delivery Based SH Shipment Based	M ID 2/2
M	BSS05	373 Date Date expressed as CCYYMMDD Adient Notes: Horizon Start Date	M DT 8/8
M	BSS06	373 Date Date expressed as CCYYMMDD Adient Notes: Horizon End Date	M DT 8/8
Must Use	BSS07	328 Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction Adient Notes: Ship Schedule Number	X AN 1/30

Must Use **BSS11** **676** **Schedule Quantity Qualifier** **O ID 1/1**
Code identifying the type of quantities used when defining a schedule or
forecast
 A Actual Discrete Quantities

Segment: **N1** Name
Position: 050
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
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.
Notes: **Adient Notes**

Adient will send 4 N1 segments with the following information:

N1(SI)04 element = DUNS number of Adient plant issuing the ship schedule

N1(ST)04 element = 4-digit site code of Adient plant

N1(SU)04 element = Supplier code assigned to supplier by Adient

N1(SF)04 element = DUNS number of supplying plant

Data Examples

N1*SI*ADIENT MATAMOROS*1*812976686~

N1*ST*ADIENT MATAMOROS*92*1352~

N1*SU*SUPPLIER NAME*92*336193~

N1*SF*SHIP-FROM NAME*1*123987456~

Data Element Summary

<u>User</u>	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Des.</u>	<u>Element</u>		
M	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			SF Ship From	
			SI Shipping Schedule Issuer	
			ST Ship To	
			SU Supplier/Manufacturer	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	

Segment: **PER Administrative Communications Contact**

Position: 100

Loop: N1 Optional (Must Use)

Level: Heading

Usage: Optional

Max Use: 1

Purpose: To identify a person or office to whom administrative communications should be directed

Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.

2 If either PER05 or PER06 is present, then the other is required.

3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Data Examples

PER*EX*SHIP-TO CONTACT NAME*TE*999-999-9999~

Data Element Summary

<u>User</u>	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Des.</u>	<u>Element</u> <u>Name</u>	<u>M</u> <u>ID</u> <u>2/2</u>
M	PER01	366 Contact Function Code Code identifying the major duty or responsibility of the person or group named EX Expeditor	M ID 2/2
Must Use	PER02	93 Name Free-form name	O AN 1/60
	PER03	365 Communication Number Qualifier Code identifying the type of communication number TE Telephone	X ID 2/2
	PER04	364 Communication Number Complete communications number including country or area code when applicable	X AN 1/80

Segment: **LIN** Item Identification
Position: 010
Loop: LIN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes:

- 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.

Notes:

Data Examples
 LIN**BP*1389188X-C*PO*55039093*EC*B~

Data Element Summary

<u>User</u>	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Des.</u>	<u>Element</u> <u>Name</u>	<u>ID</u>
M	LIN02	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number	M ID 2/2
M	LIN03	234 Product/Service ID Identifying number for a product or service	M AN 1/48
Must Use	LIN04	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) PO Purchase Order Number	X ID 2/2
Must Use	LIN05	234 Product/Service ID Identifying number for a product or service	X AN 1/48
	LIN06	235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) EC Engineering Change Level	X ID 2/2
	LIN07	234 Product/Service ID Identifying number for a product or service	X AN 1/48

Segment: **UIT** Unit Detail
Position: 020
Loop: LIN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify item unit data
Syntax Notes: 1 If UIT03 is present, then UIT02 is required.
Semantic Notes:
Comments:
Notes:

Data Examples

UIT*EA~

Data Element Summary

<u>User Attribute</u>	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	UIT01	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	M
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2

Segment: **REF** Reference Identification
Position: 050
Loop: LIN Mandatory
Level: Detail
Usage: Optional
Max Use: 3
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:
Notes:

Data Examples

REF*DK*C22~
 REF*LF*146~
 REF*RL*A11~

Data Element Summary

<u>User</u>	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Des.</u>	<u>Element</u>		
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			DK Dock Number	
			LF Assembly Line Feed Location	
			RL Reserve Assembly Line Feed Location	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **SDP** Ship/Delivery Pattern
Position: 070
Loop: LIN Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify specific ship/delivery requirements
Syntax Notes:
Semantic Notes:
Comments: 1 The intent of this segment is to define the routine ship or delivery patterns, as required, when order quantities are in "buckets", such as weekly, monthly. Ship/delivery patterns eliminate the need to transmit discrete quantities and dates for each required shipment or delivery. It is assumed that a "bucketed" quantity is to be divided equally by the ship/delivery pattern. For example, a weekly quantity of 100 with a delivery pattern of Monday and Wednesday would result in 50 to be delivered on Monday and 50 to be delivered on Wednesday.

Notes: Data Examples

SDP*H*E~

Data Element Summary

<u>User</u>	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	SDP01	678 Ship/Delivery or Calendar Pattern Code Code which specifies the routine shipments, deliveries, or calendar pattern Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/2
M	SDP02	679 Ship/Delivery Pattern Time Code Code which specifies the time for routine shipments or deliveries Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/1

Segment: **FST** Forecast Schedule
Position: 080
Loop: FST Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the forecasted dates and quantities
Syntax Notes: 1 If either FST06 or FST07 is present, then the other is required.
2 If either FST08 or FST09 is present, then the other is required.
Semantic Notes: 1 If FST03 equals "F" (indicating flexible interval), then FST04 and FST05 are required. FST04 would be used for the start date of the flexible interval and FST05 would be used for the end date of the flexible interval.
Comments: 1 As qualified by FST02 and FST03, FST04 represents either a discrete forecast date, the first date of a forecasted bucket (weekly, monthly, quarterly, etc.) or the start date of a flexible interval.
2 FST06 qualifies the time in FST07. The purpose of the FST07 element is to express the specific time of day in a 24-hour clock to satisfy "just-in-time" requirements. As an alternative, the ship/delivery pattern segment (SDP) may be used to define an approximate time, such as a.m. or p.m.
Notes: **Data Examples**
FST*90*D*D*20180202**002*1400*P8*020218T1117CR~
FST*180*C*W*20180209~

Data Element Summary

<u>User</u>	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	FST01	380 Quantity Numeric value of quantity	M R 1/15
M	FST02	680 Forecast Qualifier Code specifying the sender's confidence level of the forecast data or an action associated with a forecast C Firm D Planning	M ID 1/1
M	FST03	681 Forecast Timing Qualifier Code specifying interval grouping of the forecast D Discrete M Monthly Bucket (Calendar Months) W Weekly Bucket (Monday through Sunday)	M ID 1/1
M	FST04	373 Date Date expressed as CCYYMMDD Adient Notes: Delivery or ship date as qualified by the BSS04 element.	M DT 8/8
	FST06	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 002 Delivery Requested 010 Requested Ship	X ID 3/3
	FST07	337 Time 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)	X TM 4/8
	FST08	128 Reference Identification Qualifier Code qualifying the Reference Identification P8 Pickup Reference Number	X ID 2/3
	FST09	127 Reference Identification	X AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Adient Notes:

Pickup Sheet Number which must be returned on the ASN.

Segment: **SHP** Shipped/Received Information

Position: 140

Loop: SHP Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify shipment and/or receipt information

Syntax Notes:

- 1 If SHP01 is present, then SHP02 is required.
- 2 If SHP03 is present, then at least one of SHP04 or SHP05 is required.
- 3 If SHP04 is present, then SHP03 is required.
- 4 If SHP05 is present, then SHP03 is required.

Semantic Notes:

- 1 SHP04 is the date shipped, delivered, received, or the cumulative quantity start date (as qualified by SHP03).
- 2 SHP06 is the cumulative quantity end date.

Comments:

- 1 The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities, dates, and times.
- 2 If SHP01 equals "02", "07", "08", "09", or "10" (indicating cumulative quantities), then SHP04 and SHP06 are required to identify the start and end dates of the quantity count.

Notes: **Notes to Trading Partner**

SHP*01*1200*050*20180126~
 SHP*01*0~
 SHP*02*36000*051*20180102**20180126~
 SHP*02*0~

Adient Notes

When SHP01 = "01", this segment will contain the last net receipt quantity and the receipt date.

When SHP01 = "02", this segment will contain the cumulative quantity received, the cumulative quantity start date, and the cumulative quantity end date which will be the last receipt date.

Data Element Summary

<u>User Attribute</u>	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	SHP01	673	Quantity Qualifier Code specifying the type of quantity 01 Discrete Quantity 02 Cumulative Quantity	O ID 2/2
	SHP02	380	Quantity Numeric value of quantity	X R 1/15
	SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 050 Received 051 Cumulative Quantity Start	X ID 3/3
	SHP04	373	Date Date expressed as CCYYMMDD Adient Notes: When SHP01 = "01", this will be the last receipt date. When SHP01 = "02", this will be the cumulative quantity start date.	X DT 8/8
	SHP06	373	Date Date expressed as CCYYMMDD Adient Notes: When SHP01 = "02", this will be the last receipt date.	O DT 8/8

Segment: **REF** Reference Identification
Position: 150
Loop: SHP Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:
Notes:

Data Examples
REF*SI*3391839~

Data Element Summary

<u>User</u>	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	REF01	128 Reference Identification Qualifier Code qualifying the Reference Identification SI Shipper's Identifying Number for Shipment (SID) A unique number (to the shipper) assigned by the shipper to identify the shipment	M ID 2/3
Must Use	REF02	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **CTT** Transaction Totals
Position: 010
Loop:
Level: Summary
Usage: Optional (Must Use)
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes:

Data Examples
 CTT*3*142000~

Data Element Summary

<u>User</u>	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	CTT01	354 Number of Line Items	M N0 1/6
		Total number of line items in the transaction set	
Must Use	CTT02	347 Hash Total	O R 1/10
		Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.	

Example:

- .0018 First occurrence of value being hashed.
- .18 Second occurrence of value being hashed.
- 1.8 Third occurrence of value being hashed.
- 18.01 Fourth occurrence of value being hashed.
-
- 1855 Hash total prior to truncation.
- 855 Hash total after truncation to three-digit field.

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
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)

Syntax Notes:

Semantic Notes:

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

Data Element Summary

<u>User</u>	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Attribute</u>	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	SE01	96 Number of Included Segments	M N0 1/10
		Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329 Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	