MAGNA

ANSI X12 - Version 003060 AIAG

Shipping Schedule [862]

IMPLEMENTATION GUIDE

This guide has been produced by Magna International Inc.

This Guideline is developed to be compliant with the ANSI X12 – Version 003060 AIAG

TABLE OF CONTENTS

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 Planning Schedule 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.

This document provides recommended business practices for materials management EDI in an environment where material is ordered based on future requirements (**push**) rather than based on consumption (**pull**)

Overview:

♦ Header Information

- A code of “05” is always used in the BSS01 element even if it is the first time a schedule is being sent.
- If a part that was previously sent is not included in the current schedule, then the previous requirements for that part are considered unchanged.
- A release number must be sent in the BSS02 element to uniquely identify this document. This number shall not be repeated during the contractual agreement.
- The BSS11 element should contain the code “A” indicating the schedule contains actual discrete quantities
- The Supplier (SU) or Ship From (SF) entity identifier code must be sent, but only the SU should be transmitted when the SU and SF are the same location. If the SU and SF are different locations then use of both SU and SF are allowed.

♦ Detail Information

- The buyer’s part number “BP” must be transmitted in the LIN02 element.
- The purchase order number may be transmitted in the BSS10 element if it pertains to all parts of the Shipping Schedule or in the LIN04 element if it differs per line item. It must never be transmitted in both segments.
- The unit of measure must match the unit of measure from the UIT segment in the 830. If using pieces as the unit of measure, use code “PC” instead of “EA” in UIT01.
- Only firm orders (code “C” in the FST02) with discrete quantities (code “D” in the FST03) are used in the FST segment
- If a time is going to be sent in the FST segment then for a delivery-based schedule (BSS04=”DL”) use “002” or for shipment-based schedule (BSS04=”SH”) use “010” in the FST06 element.
- If there is only one shipment per day and the time is required then the time is sent in the FST07 element.
- The JIT segment must be used if there are multiple shipments per day.
- The sum of the quantity in all JIT01 elements must equal the quantity in the previous FST segment.
- The SHP segment must be sent and if there are no previous shipments then it should contain the value of zero in the SHP02 element.
- Two occurrences of this segment are required. One specifies the discrete quantity sent and the second specifies the cumulative quantity sent since last cum reset.
- The REF segment is used to transmit shipment identification information on the last shipment considered by the customer.
- This REF segment is required if the previous SHP segment contains “01” in the SHP01 element and the quantity in the SHP02 is greater then zero.

Recommended Business Practices:

- For the purposes of this discussion operating in a Just-In-Time manufacturing environment requires trading partners to ship on a frequency defined as more than one shipment per week.
- For parts that are under the effect of a Just-In-Time manufacturing environment the 862 Shipping Schedule will be used to supplement the 830 Planning Schedule. The 830 Planning Schedule with Release Capability will be used to transmit planning information and the 862 Shipping Schedule will be used to transmit precise shipping requirements.
- An 862 will be transmitted as needed for any changes in the Shipping Schedule, at an established, scheduled time of day.
- A Shipping Schedule can only be replaced. Originals or cancellations are not allowed.
- Since the 862 Shipping Schedule is a replacement transaction the following example outlines the business process rules of handling the sending of changes to part quantities:
  - If a customer wishes to adjust a quantity for an individual part/purchase order/engineering change then only that part/purchase order/engineering change needs to be sent.
  - If previously there were three part/purchase order/engineering changes sent and now only one is sent at this time, then the requirements for the two part/purchase order/engineering changes not sent would remain unchanged
  - A customer may choose to send all three part/purchase order/engineering changes again even though two of the three remain the same.
  - The Customer should establish one way of handling the changes and then follow it consistently.
  - To cancel out all requirements for individual part/purchase order/engineering change, then that part/purchase order/engineering change with a requirement of zero in one FST segment must be sent for the first requirement data.
- For an individual part/purchase order/engineering change being transmitted, only significant quantities need to be sent.
- The first FST segment must include any quantities from FST segments transmitted on a previous 862 for requirement data prior to the horizon start date that have not been fulfilled. Requirements are not considered fulfilled unless they are included in the current 862 SHP segment receive/shipped cumulative quantity.
- Any discrepancies in cums must be resolved immediately.
- The quantities transmitted in the 862 Shipping Schedule should be within the horizon established by the 830 Planning Schedule.

Data Segment Sequence Table

Heading:

Use	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	100 Page No.
Must	010	ST	Transaction Set Header	M	1		
Must	020	BSS	Beginning Segment for Shipping Schedule/Production Sequence	M	1		
			LOOP ID - N1			200	
Must	050	N1	Name	O	1		
	090	REF	Reference Identification	O	12		

Detail:

Use	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Page No.
			LOOP ID – LIN			10000	
Must	010	LIN	Item Identification	M	1		
Must	020	UIT	Unit Detail	M	1		
	050	REF	Reference Identification	O	12		
	060	PER	Administrative Communications Contact	O	1		
			LOOP ID – FST			100	
Must	080	FST	Forecast Schedule	O	1		
			LOOP ID – JIT			96	
	110	JIT	Just-In-Time Schedule	O	1		
	120	REF	Reference Identification	O	500		
			LOOP ID – SHP			10	
Must	140	SHP	Shipped/Received Information	O	1		
	150	REF	Reference Identification	O	12		

Summary:

Use	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Page No.
Must	010	CTT	Transaction Totals	O	1		
Must	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The number of line 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: The Transaction set control number (ST02) in this header must match the Transaction set control number (SE02) in the Transaction set trailer (SE)
Example:

ST*862*0001$_{N/L}$

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 862 X12.37 Shipping Schedule	**M ID 3/3**
Yes	**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 indicate the beginning of a Shipping Schedule transaction set and to provide basic data related to the Shipping Schedule.
Syntax Notes:
1 BSS08 is used as 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 (when the schedule begins).
4 Use BSS06 to indicate the schedule horizon end date (when the schedule ends).
5 BSS08 is the identifying number for a schedule assigned by the orderer/purchaser.
Comments:
Example:

BSS*05*980930533*980403*DL*980403*980512**980930533***$A_{N/L}$

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**BSS01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 05 Replace The code is always "05" even if it is the first time a schedule is being sent. If a part that was previously sent is not included in the current schedule, then previous requirements for that part are considered unchanged.	**M ID 2/2**
Yes	**BSS02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier The Reference Identification Qualifier or Release Number provided uniquely identifies this document. This number shall not be repeated during the contractual agreement.	**M AN 1/30**
Yes	**BSS03**	**373**	**Date** Date (YYMMDD) Schedule Issue Date	**M DT 6/6**
Yes	**BSS04**	**675**	**Schedule Type Qualifier** Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast This code identifies whether the FST04 dates are delivery or shipment based. If the dates are delivery based, then this specifies when the material must be at the customer's receiving location. If the dates are shipment based, then this specifies when the material must leave the supplier's shipping location. DL Delivery Based KB Kanban Based SH Shipment Based	**M ID 2/2**
Yes	**BSS05**	**373**	**Date** Date (YYMMDD) Schedule Horizon Start Date	**M DT 6/6**
Yes	**BSS06**	**373**	**Date** Date (YYMMDD) Schedule Horizon End Date	**M DT 6/6**
N/U	**BSS07**	**328**	**Release Number** Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	**X AN 1/30**

Yes	**BSS08**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/30**
N/U	**BSS09**	**367**	**Contract Number** Contract number	**O**	**AN 1/30**
Yes	**BSS10**	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser This element will contain the purchase order number unless the purchase order number is the LIN segment. The purchase order number should be transmitted in the LIN segment unless one purchase order number pertains to all parts in the schedule. The purchase order number must never be transmitted in both segments.	**O**	**AN 1/22**
Yes	**BSS11**	**676**	**Schedule Quantity Qualifier** Code identifying the type of quantities used when defining a schedule or forecast A Actual Discrete Quantities	**O**	**ID 1/1**

Segment: **N1** **Name**
Position: 050
Loop: N1
Level: Heading
Usage: Mandatory
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 The N1 is used to identify information that applies to all parts in the detail area.
2 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.
Example:

N1*SI**01*246439921 N/L

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual The Supplier (SU) or Ship From (SF) entity identifier code must be sent, but only the SU should be transmitted when the SU and SF are the same location. If the SU and SF are different locations then use of both SU and SF are allowed. SF Ship From SI Shipping Schedule Issuer ST Ship To SU Supplier / Manufacturer	**M ID 2/2**
N/U	**N102**	**93**	**Name** Free-form name	**X AN 1/35**
Yes	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) DUNS numbers must have internal spaces and dashes suppressed. 1 D-U-N-S Number, Dun & Bradstreet Magna uses D-U-N-S Number	**X ID 1/2**
Yes	**N104**	**67**	**Identification Code** Code identifying a party or other code	**X AN 2/20**
N/U	**N105**	**706**	**Entity Relationship Code** Code describing entity relationship Refer to 003060AUTO Data Element Dictionary for acceptable code values.	**O ID 2/2**
N/U	**N106**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, or an individual Refer to 003060AUTO Data Element Dictionary for acceptable code values.	**O ID 2/2**

Segment: **REF** **Reference Identification**
Position: 090
Loop: N1
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:
Semantic Notes:
Comments: Reference fields apply to the detail area.
Example:

REF*DK*Door $03_{N/L}$

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification AO Appointment Number CR Customer Reference Number DK Dock Number LF Assembly Line Feed Location RL Reserve Assembly Line Feed Location	**M ID 2/3**
Yes	**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**
N/U	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content	**X AN 1/80**
N/U	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**

Segment: **LIN** **Item Identification**
Position: 010
Loop: LIN
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data for a given part/purchase order/ engineering change.
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 are 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 The purchase order number may be transmitted in this segment or in the BSS10 element. The purchase order number should be transmitted in the LIN segment unless one purchase order number pertains to all parts in the schedule. The purchase order number must never be transmitted in both segments.
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.
Example:

LIN**BP*ABC123*PO*12349876$_{N/L}$

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
N/U	**LIN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set	**O AN 1/20**
Yes	**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**
Yes	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service	**M AN 1/40**
Yes	**LIN04**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) The engineering change level (EC) is transmitted when the form, fit or function of the part has not changed; otherwise, a new part number must be used. CN Commodity Name CR Contract Number DR Drawing Revision Number EC Engineering Change Level KP Kanban Plan Number PL Purchaser's Order Line Number	**X ID 2/2**

PO	Purchase Order Number
PR	Process Number
RN	Release Number
RY	Record Keeping or Model Year
VP	Vendor's (Seller's) Part Number

LIN05 234 Product/Service ID X AN 1/40

Identifying number for a product or service

LIN06 through LIN31 provide 13 additional pairs of Product/Service ID Qualifiers and Product/Service Ids to further describe the line item. The above code list applies to each occurrence of data element 235 in these pairs.

Segment: **UIT** **Unit Detail**
Position: 020
Loop: LIN
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify item unit data
Syntax Notes:
Semantic Notes:
Comments:
Example:

UIT*PC$_{N/L}$

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes	
Yes	**UIT01**	**C001**	**Composite Unit of Measure** To identify a composite unit of measure If using pieces as a unit of measure, use code "PC" instead of "EA". Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. It must match the corresponding unit of measure from the UIT segment in the Planning Schedule Transaction Set (830)	**M**	
N/U	**UIT02**	**212**	**Unit Price** Price per unit of product, service, commodity, etc.	**X**	**R 1/17**
N/U	**UIT03**	**639**	**Basis of Unit Price Code** Code identifying the type of unit price for an item Refer to 003060AUTO Data Element Dictionary for acceptable code values.	**O**	**ID 2/2**

Segment: **REF** **Reference Identification**
Position: 050
Loop: LIN
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
Semantic Notes:
Comments: **1** Use of this segment applies all reference fields to the entire LIN loop.
Example:

REF*DK*Door $04_{N/L}$

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification DK Dock Number KB Beginning Kanban Serial Number KE Ending Kanban Serial Number LF Assembly Line Feed Location RL Reserve Assembly Line Feed Location	**M ID 2/3**
Yes	**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**
Yes	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content	**X AN 1/80**
N/U	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**

Segment: **PER** **Administrative Communications Contact**
Position: 060
Loop: LIN
Level: Detail
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:
Example:

PER*BD*JOHN BIG*FX*905-555-1212*EM*BIG@MAGNA.ON.CA*TE*905-555-1313 N/L

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**PER01**	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named BD Buyer Name or Department EX Expeditor	**M ID 2/2**
Yes	**PER02**	**93**	**Name** Free-form name e.g.: Buyer's Name	**O AN 1/35**
Yes	**PER03**	**365**	**Communication Number Qualifier** EM Electronic Mail FX Facsimile TE Telephone	**X ID 2/2**
Yes	**PER04**	**364**	**Communication Number** Complete communications number including country or area code when applicable	**X AN 1/80**
Yes	**PER05**	**365**	**Communication Number Qualifier** Code identifying the type of communication number	**X ID 2/2**
Yes	**PER06**	**364**	**Communication Number** Complete communications number including country or area code when applicable	**X AN 1/80**
Yes	**PER07**	**365**	**Communication Number Qualifier** Code identifying the type of communication number	**X ID 2/2**
Yes	**PER08**	**364**	**Communication Number** Complete communications number including country or area code when applicable	**X AN 1/80**
N/U	**PER09**	**443**	**Contact Inquiry Reference** Additional reference number or description to clarify a contact number	**O AN 1/20**

Segment: **FST** **Forecast Schedule**
Position: 080
Loop: FST
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the shipping/delivery dates and quantities. One occurrence of this segment is mandatory.
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.

Use one JIT segment for each delivery time.

Must be used if more than one shipment per day is specified.

Example:

FST*500*C*D*990806**010*0800$_{N/L}$
For only one shipment per day

FST*500*C*D*990806**010$_{N/L}$
For more than shipment per day

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**FST01**	**380**	**Quantity** Numeric value of quantity Interpretation of this quantity is based on the code in BSS11 Magna usage is actual discrete quantity If the JIT segment is used, then this must be the sum of all the JIT requirements for the period covered by the FST segment	**M R 1/15**
Yes	**FST02**	**680**	**Forecast Qualifier** Code specifying the sender's confidence level of the forecast data or an action associated with a forecast C Firm	**M ID 1/1**
Yes	**FST03**	**681**	**Forecast Timing Qualifier** Code specifying interval grouping of the schedule D Discrete Refer to 003060AUTO Data Element Dictionary for acceptable code values.	**M ID 1/1**
Yes	**FST04**	**373**	**Date** Date (YYMMDD)	**M DT 6/6**
N/U	**FST05**	**373**	**Date** Date (YYMMDD)	**O DT 6/6**
Yes	**FST06**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	**X ID 3/3**

If this is a delivery-based schedule (BSS04 = “DL”) then a code of “002” for Delivery Requested is used.
If this is a shipment-based schedule (BSS04 = “SH”) then a code of “010” for Requested Ship is used.

002	Delivery Requested
010	Requested Ship

Yes	**FST07**	**337**	**Time**	**X**	**TM 4/8**
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)						
			Time of shipment or delivery when only one shipment is made on a given day			
N/U	**FST08**	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
Code qualifying the Reference Identification Refer to 003060AUTO Data Element Dictionary for acceptable code values.						
N/U	**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						
N/U	**FST10**	**783**	**Planning Schedule Type Code**	**O**	**ID 2/2**
Code identifying type of Planning Schedule used Refer to 003060AUTO Data Element Dictionary for acceptable code values.						

Segment: **JIT** **Just-In-Time Schedule**
Position: 110
Loop: JIT
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify the specific shipping/delivery time in terms of a 24-hour clock and identify the associated quantity
Syntax Notes:
Semantic Notes:
Comments: Use one JIT segment for each delivery time.

Must be used if more than one shipment per day is specified.
Example:

JIT*250*0800$_{N/L}$

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**JIT01**	**380**	**Quantity** Numeric value of quantity. The sum of the quantity in these elements must add up to the quantity transmitted in the previous FST segment. Quantity to be shipped or delivered	**M R 1/15**
Yes	**JIT02**	**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)	**M TM 4/8**

Segment: **REF** **Reference Identification**
Position: 120
Loop: JIT
Level: Detail
Usage: Optional
Max Use: 500
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
Semantic Notes:
Comments: **1** Use of this segment in the detail after the JIT segment to transmit reference fields applies to this LIN/FST/JIT loop.
Example:

REF*DK*Door $04_{N/L}$

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification AO Appointment Number DK Dock Number LF Assembly Line Feed Location RL Reserve Assembly Line Feed Location	**M ID 2/3**
Yes	**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**
N/U	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content	**X AN 1/80**
N/U	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**

Segment: **SHP** **Shipped/Received Information**
Position: 140
Loop: SHP
Level: Detail
Usage: Optional
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:
If there have been no prior shipments for the part, the segment will still be sent, with quantity of zero in SHP02.
Otherwise, two occurrences will be sent: one to specify last discrete quantity received or shipped, and one to specify cumulative received or quantity shipped since last cum reset.
If SHP01 is present, then SHP02 is required. If SHP04 is present, then SHP03 is required.
The following summarizes the SHP segment and clarifies the relationship between SHP)1 and SHP03:

If SHP01 is	The SHP03 is
01	011 – Shipped or 050 – received
02	051 – Cumulative Quantity Start

Example:

SHP*01*250*050*990807$_{N/L}$

SHP*02*1500*051*990104**990807$_{N/L}$

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**SHP01**	**673**	**Quantity Qualifier** Code specifying the type of quantity 01 Discrete Quantity 02 Cumulative Quantity	**O ID 2/2**
Yes	**SHP02**	**380**	**Quantity** Numeric value of quantity	**X R 1/15**
Yes	**SHP03**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 011 Shipped 050 Received 051 Cumulative Quantity Start	**X ID 3/3**
Yes	**SHP04**	**373**	**Date** Date (YYMMDD)	**X DT 6/6**

			If SHP01 = “02”, then this is the beginning inventory date.			
N/U	**SHP05**	**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**
Yes	**SHP06**	**373**	**Date** Date (YYMMDD) This is only used if the SHP01 = "02", then this is the supplier's last ship date.	**O**	**DT 6/6**
N/U	**SHP07**	**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)	**O**	**TM 4/8**

Segment: **REF** **Reference Identification**
Position: 150
Loop: SHP
Level: Detail
Usage: Optional
Max Use: 12
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:
1 This segment is used to transmit shipment identification information for the last shipment considered by the customer.
1 This segment is required if the previous SHP01 contains "01" and the quantity in the SHP02 is greater than zero.
Example:

REF*SI*987654$_{N/L}$

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification SI Shipper's Identifying Number for Shipment (SID)	**M ID 2/3**
Yes	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier e.g.: Last Receipt Shipper Number	**X AN 1/30**
N/U	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content	**X AN 1/80**
N/U	**REF04**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**

Segment: **CTT** **Transaction Totals**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
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.
Semantic Notes:
Comments: **1** This segment is intended to provide hash totals to validate transaction completeness and correctness.
Example:

CTT*1*855$_{N/L}$

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**CTT01**	**354**	**Number of Line Items** Total number of line items in the transaction set Total number of LIN segments	**M N0 1/6**
Yes	**CTT02**	**347**	**Hash Total** 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.	**O R 1/10**

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.
Example:

SE*862*0001$_{N/L}$

Data Element Summary

Use	Ref. Des.	Data Element	Name	Attributes
Yes	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
Yes	**SE02**	**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**

APPENDIX A

GLOSSARY OF TERMS

ANSI ASC X12 American National Standards Institute Accredited Standards Committee. The overall governing body in the USA that sets standards on a wide variety of products/services. "X12" is the name of the committee responsible for setting the EDI Standards.

Data Element A basic unit of information in the EDI standards. Their structure includes numeric values, descriptions and character codes.

DUNS # The DUN's # will be used as the EDI address; if not available, a Supplier Code will be assigned by Magna. An EDI address is a unique code to identify an EDI trading partner. An example, when used in the ISA header, is 01:123456789 where "123456789" is the ID value and "01" is the qualifier. Each EDI address must be unique to a single user. DUN's # is available from Dun & Bradstreet Information Services. (refer to *Contacts* in this guide)

EDI Electronic Data Interchange is the inter-company exchange of business documents between computer applications using an industry standard.

Element Separator A data element separator is used to separate data elements within a segment. When there is no data being transmitted for a defined element, the data element separator is transmitted to preserve the data element count unless the unused elements are last in the segment. For the remainder of this guide, "*" will be used to represent the data element separator. **The '*' is the Magna preference and recommended symbol.** This symbol may, otherwise, be mutually agreed upon by both users.

Loop A series of related data segments. The N1 through N4 "Name/Address" loop is an example.

Qualifier A qualifier is a 2 character code which defines a source of the ID value. Qualifier codes are defined in the standards data element dictionary.

Segment A transaction set consists of an ordered collection of smaller units known as segments, each of which begins with a standard 2- or 3-character segment identifier (such as ST,BEG,N4,etc.) and ends with a 1-character segment terminator. In general, a segment corresponds to a single line on a paper document.

Sub Element Separator A sub element separator is used to separate data within an element. For the remainder of this guide, "~" will be used to represent the sub element separator. **The '~' is the Magna preference and recommended symbol.** This symbol may, otherwise, be mutually agreed upon by both users.

Segment Terminator The data segment terminator indicates that all subsequent elements in that segment are unused and that the end of the segment has been reached. For the remainder of this guide, "$_{NL}$" or <cr> will be used to represent the data segment terminator. **The '$_{NL}$' is the Magna preference and recommended symbol.** This symbol may, otherwise, be mutually agreed upon by both users.

APPENDIX B

B1 - EXAMPLE OF AN 830 AND 862 TIME HORIZON

QTY / Date	10/1	10/2	10/3	10/4	10/5	10/6	10/7	10/8	10/9	10/10	10/11	10/12	10/13	10/14
830 FST	260							270						
862 FST		100		100	60				110		100	60		
862 JIT		60		50					60		50			
		40		50					50		50			

- Total requirements from 830 Planning Schedule for week of October 1, 99 covers the requirements from the 862 Shipping Schedule.
- The example shows that the sum of the quantities from the JIT segment will equal the quantity on the FST segment.

B2 - EXAMPLE OF SHIPMENT BASED 862

The time horizon from example B1 is used as a basis for the information in example B2.

Example B2 is a shipment based shipping schedule.

Only the first week of requirements from example B1 has been mapped out in example B2.

If all the requirements were included, then additional FST and JIT segments would need to be added within the LIN loop.

Date	10/1	10/2	10/3	10/4	10/5	10/6	10/7	10/8	10/9	10/10	10/11	10/12	10/13	10/14
830 FST	260							270						
862 FST		100		100	60				110		100	60		
862 JIT		60 40		50 50					60 50		50 50			
Shiptime		9:30 15:00		9:30 15:00	11:00				9:30 15:00		9:30 15:00	11:00		

B2 - EXAMPLE OF SHIPMENT BASED 862 (Continued)

Segment	Explanation
ST*862*0001 N/L	**862** – Transaction Set Identifier Code (Shipping Schedule) **0001** – Transaction Set Control Number
BSS*05*901*991001*SH*991001*991201**901***A N/L ① ② ③ ④	**05** – Purpose Code (Replace) **901** – Reference Identification (*Release Number*) **991001** – Schedule Issue Date (*Oct 1, 1999*) **SH** – Schedule Type Qualifier (Shipment Based) **991001** – Horizon Start Date (*Oct 1, 1999*) **991201** – Horizon End Date (*Dec 1, 1999*) **901** – Reference Identification **A** – Schedule Quantity Qualifier (Actual Discrete Quantities) ① Code of "05" is always used ② Release numbers must be sent in BSS02 to uniquely identify this document ③ Use "SH" in BSS04 for shipment based schedule ④ The BSS11 element should contain "A" indicating actual discrete quantities
N1*SI**01*999555111 N/L	**SI** – Entity Identifier Code (Shipping Schedule Issuer) **01** – Identification Code Qualifier (DUNS number) 999555111 – Identification Code (*DUNS number*)
N1*SU**01*123456789 N/L	**SU** – Entity Identifier Code (Supplier/Manufacturer) **01** – Identification Code Qualifier (DUNS number) **123456789** – Identification Code (*DUNS number*)
N1*ST* *01*999555222 N/L	**ST** – Entity Identifier Code (Ship To) **01** – Identification Code Qualifier (DUNS number) **999555222** – Identification Code (*DUNS number*)
LIN**BP*777666*PO*G3355*EC*002 N/L ⑤ ⑥	**BP** – Product/Service ID Qualifier (Buyer's Part Number) **777666** – Product/Service ID (*Buyer's Part Number*) **PO** – Product/Service ID Qualifier (Purchase Order Number) **G3355** – Product/Service ID (*PO Number*) **EC** – Product/Service ID Qualifier (Engineering Change Level) **002** – Product/Service ID (*Engineering Change Level*) ⑤ The Buyer's part number must be transmitted in LIN02 ⑥ The purchase order number may be sent in BSS10 if it pertains to all parts or in LIN04 if it differs per line item
UIT*PC N/L ⑦	**PC** – Composite Unit of Measure (Each) ⑦ The unit of measure must match the UIT segment in the corresponding 830 transaction

B2 - EXAMPLE OF SHIPMENT BASED 862 (Continued)

Segment	Explanation
REF*DK*AA N/L	**DK** – Reference Identification Qualifier (Dock Number) **AA** – Reference Identification (*Dock Number*)
REF*LF*234 N/L	**LF** – Reference Identification Qualifier (Assembly Line Feed Location) **234** – Reference Identification (*Assembly Line Feed Location*)
FST*100*C*D*991002**010 N/L ❶ ❷	**100** – Quantity **C** – Forecast Qualifier (Firm) **D** – Forecast Timing Qualifier (Discrete) **990102** – Date (*Oct 2, 1999*) **010** – Date/Time Qualifier (Requested Ship) ❶ The sum of the quantity of all JIT01 elements must equal the quantity in the previous FST segment (element FST01) ❷ Only firm orders ("C" in FST02") and discrete quantities ("D" in FST03) are used in the FST segment
JIT*60*0930 N/L ❸ ❶	**60** – Quantity **0930** – Time (*Shipment Time of 09:30 a.m.*) ❶ The sum of the quantity of all JIT01 elements must equal the quantity in the previous FST segment ❸ The JIT must be used if there are multiple shipments per day
JIT*40*1500 N/L ❸ ❶	**40** – Quantity **1500** – Time (*Shipment Time of 3:00 p.m.*) ❶ The sum of the quantity of all JIT01 elements must equal the quantity in the previous FST segment ❸ The JIT must be used if there are multiple shipments per day
FST*100*C*D*991004**010 N/L ❶	**80** – Quantity **C** – Forecast Qualifier (Firm) **D** – Forecast Timing Qualifier (Discrete) **991004** – Date (*Oct 4, 1999*) **010** – Date/Time Qualifier (Requested Ship) ❶ The sum of the quantity of all JIT01 elements must equal the quantity in the previous FST segment (element FST01)
JIT*50*0930 N/L ❶	**50** – Quantity **0930** – Time (*Shipment Time of 09:30 a.m.*) ❶ The sum of the quantity of all JIT01 elements must equal the quantity in the previous FST segment

B2 - EXAMPLE OF SHIPMENT BASED 862 (Continued)

Segment	Explanation
JIT*50*1500 N/L ❶	**40** – Quantity **1500** – Time (*Shipment Time of 3:00 p.m.*) ❶ The sum of the quantity of all JIT01 elements must equal the quantity in the previous FST segment
FST*100*C*D*991005**002*1100 N/L ❺	**100** – Quantity **C** – Forecast Qualifier (Firm) **D** – Forecast Timing Qualifier (Discrete) **991005** – Date (*Oct 5, 1999*) **010** – Date/Time Qualifier (Requested Ship) **1100** – Time (*Shipment Time of 11:00 a.m.*) ❺ If there is only one shipment per day and the time is required then the time is sent in the FST07 element
SHP*01*200*050*990927 N/L ①	**01** – Quantity Qualifier (Discrete Quantity) **200** – Quantity **050** – Date/Time Qualifier (Received) **990927** – Date (*Sep 27, 1999*) (*Last Receipt Date*) ① Two occurrences of the SHP are required. One specifies the discrete quantity sent (SHP01="01") and the second specifies the cumulative quantity sent (SHP01="02") since the last cum reset.
REF*SI*987654 N/L ②	**SI** – Reference Identification Qualifier (Shipper's Identifying Number for Shipment) **987654** - Reference Identification (*ASN / Shipper Number*) ② The REF segment is used to transmit shipment identification information on the last shipment considered by the customer
SHP*02*600*051*990101**990927 N/L ①	**02** – Quantity Qualifier (Cumulative Quantity) **600** – Quantity **051** – Date/Time Qualifier (Cumulative Quantity Start) 990927 – Date (*Sep 27, 1999*) (*Beginning Inventory Date only if SHP01="02"*) **990927** – Date (*Sep 27, 1999*) (*Last Receipt Date only if SHP01="02")* ① Two occurrences of the SHP are required. One specifies the discrete quantity sent (SHP01="01") and the second specifies the cumulative quantity sent (SHP01="02") since the last cum reset.
CTT*1 N/L	**1** – Number of Line Items (*Number of LIN segments*)
SE*19*0001 N/L	**31** - Total number of Included segments (including ST and SE) 0001 – Transaction Set Control Number

B3 - EXAMPLE OF DELIVERY BASED 862

The time horizon from example B1 is used as a basis for the information in example B2.

Example B3 is a delivery based shipping schedule.

Only the first week of requirements from example B1 has been mapped out in example B3.

If all the requirements were included, then additional FST and JIT segments would need to be added within the LIN loop.

Example B3 has been formatted to be equivalent with example B2.

The transit delivery time for the purposes of the example is 25 hours (or 1 day and 1 hour).

The meaning of data changes dramatically with the change from shipment based to delivery based.

The information in a delivery-based schedule does not provide the actual shipment time. The supplier wood need to work backward using the transit time based on the routing specified ion the purchase order.

Date	10/1	10/2	10/3	10/4	10/5	10/6	10/7	10/8	10/9	10/10	10/11	10/12	10/13	10/14
830 FST	260							270						
862 FST		100		100	60				110		100	60		
862 JIT		60 40		50 50					60 50		50 50			
Required time		9:30 15:00		9:30 15:00	11:00				9:30 15:00		9:30 15:00	11:00		
Shiptime	8:30 14:00		3:30 14:00	10:00				8:30 14:00		3:30 14:00	10:00			

B3 - EXAMPLE OF DELIVERY BASED 862 (Continued)

Segment	Explanation
ST*862*0001 N/L	**862** – Transaction Set Identifier Code (Shipping Schedule) **0001** – Transaction Set Control Number
BSS*05*902*991001*DL*991001*991201**901***A N/L ① ② ③ ④	**05** – Purpose Code (Replace) **902** – Reference Identification (*Release Number*) **991001** – Schedule Issue Date (*Oct 1, 1999*) **DL** – Schedule Type Qualifier (Delivery Based) **991001** – Horizon Start Date (*Oct 1, 1999*) **991201** – Horizon End Date (*Dec 1, 1999*) **901** – Reference Identification **A** – Schedule Quantity Qualifier (Actual Discrete Quantities) ① Code of "05" is always used ② Release numbers must be sent in BSS02 to uniquely identify this document ③ Use "DL" in BSS04 for delivery based schedule ④ The BSS11 element should contain "A" indicating actual discrete quantities
N1*SI**01*999555111 N/L	**SI** – Entity Identifier Code (Shipping Schedule Issuer) **01** – Identification Code Qualifier (DUNS number) 999555111 – Identification Code (*DUNS number*)
N1*SU**01*123456789 N/L	**SU** – Entity Identifier Code (Supplier/Manufacturer) **01** – Identification Code Qualifier (DUNS number) **123456789** – Identification Code (*DUNS number*)
N1*ST* *01*999555222 N/L	**ST** – Entity Identifier Code (Ship To) **01** – Identification Code Qualifier (DUNS number) **999555222** – Identification Code (*DUNS number*)
LIN**BP*777666*PO*G3355*EC*002 N/L ⑤ ⑥	**BP** – Product/Service ID Qualifier (Buyer's Part Number) **777666** – Product/Service ID (*Buyer's Part Number*) **PO** – Product/Service ID Qualifier (Purchase Order Number) **G3355** – Product/Service ID (*PO Number*) **EC** – Product/Service ID Qualifier (Engineering Change Level) **002** – Product/Service ID (*Engineering Change Level*) ⑤ The Buyer's part number must be transmitted in LIN02 ⑥ The purchase order number may be sent in BSS10 if it pertains to all parts or in LIN04 if it differs per line item
UIT*PC N/L ⑦	**PC** – Composite Unit of Measure (Each) ⑦ The unit of measure must match the UIT segment in the corresponding 830 transaction

B3 - EXAMPLE OF DELIVERY BASED 862 (Continued)

Segment	Explanation
REF*DK*AA N/L	**DK** – Reference Identification Qualifier (Dock Number) **AA** – Reference Identification (*Dock Number*)
REF*LF*234 N/L	**LF** – Reference Identification Qualifier (Assembly Line Feed Location) **234** – Reference Identification (*Assembly Line Feed Location*)
FST*100*C*D*991001**002 N/L ❶ ❷	**100** – Quantity **C** – Forecast Qualifier (Firm) **D** – Forecast Timing Qualifier (Discrete) **990101** – Date (*Oct 1, 1999*) **002** – Date/Time Qualifier (Delivery Requested) ❶ The sum of the quantity of all JIT01 elements must equal the quantity in the previous FST segment (element FST01) ❷ Only firm orders ("C" in FST02") and discrete quantities ("D" in FST03) are used in the FST segment
JIT*40*1230 N/L ❸ ❶	**40** – Quantity **1230** – Time (*Delivery Time of 12:30 p.m.*) ❶ The sum of the quantity of all JIT01 elements must equal the quanti the previous FST segment ❸ The JIT must be used if there are multiple shipments per day
JIT*60*1500 N/L ❸ ❶	**60** – Quantity **1500** – Time (*Delivery Time of 3:00 p.m.*) ❶ The sum of the quantity of all JIT01 elements must equal the quanti the previous FST segment ❸ The JIT must be used if there are multiple shipments per day
FST*80*C*D*991003**002*1000 N/L ❹ ❺	**80** – Quantity **C** – Forecast Qualifier (Firm) **D** – Forecast Timing Qualifier (Discrete) **991003** – Date (*Oct 3, 1999*) **002** – Date/Time Qualifier (Delivery Requested) **1000** – Time (*Delivery Time of 10:00 a.m.*) ❹ Use "002" in FST06 for delivery based schedule ❺ If there is only one shipment per day and the time is required then the time is sent in the FST07 element
FST*100*C*D*991005**002*1100 N/L	**100** – Quantity **C** – Forecast Qualifier (Firm) **D** – Forecast Timing Qualifier (Discrete) **991005** – Date (*Oct 5, 1999*) **002** – Date/Time Qualifier (Delivery Requested) **1100** – Time (*Delivery Time of 11:00 a.m.*)

B3 - EXAMPLE OF DELIVERY BASED 862 (Continued)

Segment	Explanation
SHP*01*200*050*990927 N/L ①	**01** – Quantity Qualifier (Discrete Quantity) **200** – Quantity **050** – Date/Time Qualifier (Received) **990927** – Date (*Sep 27, 1999*) (*Last Receipt Date*) ① Two occurrences of the SHP are required. One specifies the discrete quantity sent (SHP01="01") and the second specifies the cumulative quantity sent (SHP01="02") since the last cum reset.
REF*SI*987654 N/L ②	**SI** – Reference Identification Qualifier (Shipper's Identifying Number for Shipment) **987654** - Reference Identification (*ASN / Shipper Number*) ② The REF segment is used to transmit shipment identification information on the last shipment considered by the customer
SHP*02*600*051*990101**990927 N/L ①	**02** – Quantity Qualifier (Cumulative Quantity) **600** – Quantity **051** – Date/Time Qualifier (Cumulative Quantity Start) 990927 – Date (*Sep 27, 1999*) (*Beginning Inventory Date only if SHP01="02"*) **990927** – Date (*Sep 27, 1999*) (*Last Receipt Date only if SHP01="02")* ① Two occurrences of the SHP are required. One specifies the discrete quantity sent (SHP01="01") and the second specifies the cumulative quantity sent (SHP01="02") since the last cum reset.
CTT*1 N/L	**1** – Number of Line Items (*Number of LIN segments*)
SE*19*0001 N/L	**31** - Total number of Included segments (including ST and SE) 0001 – Transaction Set Control Number

APPENDIX C

C1 - EXAMPLE OF CHANGES TO PART QUANTITIES

- The 862 Shipping Schedule is a replacement transaction per part/purchase order/engineering change.
- If a customer wishes to adjust a quantity for an individual part/purchase order/engineering change, then only that part/purchase order/engineering change needs to be transmitted.
- If in a previous transmission there were three part/purchase order/engineering changes sent. If only one part/purchase order/engineering change was different, then only that one part/purchase order/engineering change is requir3ed to be sent. The customer may wish to send all three part/purchase order/engineering changes with two being the same as before.
- There are a few ways in which a customer can handle changes to quantities in a part/purchase order/engineering change. The important thing is that the manner should be consistent.

An 862 is received on July 8, and results in the following requirements as of July 8:

LINBP*A1234~**
FST*50*C*D*990708~
FST*20*C*D*990709~
LINBP*B4567~**
FST*50*C*D*990708~
FST*30*C*D*990709~
FST*20*C*D*990710~
LINBP*C7890~**
FST*40*C*D*990708~
FST*30*C*D*990709~
FST*15*C*D*990710~

QTY / Date	7/8	7/9	7/10	7/11	7/12
A1234	50	20			
B4567	50	30	20		
C7890	40	30	15		

An 862 is received on July 9, and results in the following requirements as of July 9:

LINBP*B4567~**
FST*10*C*D*990709~
FST*20*C*D*990710~

QTY / Date		7/9	7/10	7/11	7/12
A1234		20			
B4567		10	20		
C7890		30	15		

The 862 received on July 9, could have included all part/purchase order/engineering changes and the results would be the same as above:

LINBP*A1234~**
FST*20*C*D*990709~
LINBP*B4567~**
FST*10*C*D*990709~
FST*20*C*D*990710~
LINBP*C7890~**
FST*30*C*D*990709~
FST*15*C*D*990710~

QTY / Date		7/9	7/10	7/11	7/12
A1234		20			
B4567		10	20		
C7890		30	15		

C2 - EXAMPLE OF CANCELING PART QUANTITIES

- The 862 Shipping Schedule is a replacement transaction per part/purchase order/engineering change.
- If a customer wishes to cancel all requirements for an individual part/purchase order/engineering change, then that part/purchase order/engineering change needs to be transmitted with a requirement of zero for the first requirement date.
- The individual requirements do not need to be zeroed out when the one FST with a quantity of zero is sent.
- There are a few ways in which a customer can handle changes to quantities in a part/purchase order/engineering change. The important thing is that the manner should be consistent.

An 862 is received on July 8, and results in the following requirements as of July 8:

LINBP*A1234~**
FST*50*C*D*990708~
FST*20*C*D*990709~
LINBP*B4567~**
FST*50*C*D*990708~
FST*30*C*D*990709~
FST*20*C*D*990710~
LINBP*C7890~**
FST*40*C*D*990708~
FST*30*C*D*990709~
FST*15*C*D*990710~

QTY / Date	7/8	7/9	7/10	7/11	7/12
A1234	50	20			
B4567	50	30	20		
C7890	40	30	15		

An 862 is received on July 9, and results in the following requirements as of July 9:

LINBP*B4567~**
FST*0*C*D*990709~

QTY / Date		7/9	7/10	7/11	7/12
A1234		20			
B4567					
C7890		30	15		

The 862 received on July 9, could have included all part/purchase order/engineering changes and the results would be the same as above:

LINBP*A1234~**
FST*20*C*D*990709~
LINBP*B4567~**
FST*0*C*D*990709~
LINBP*C7890~**
FST*30*C*D*990709~
FST*15*C*D*990710~

QTY / Date		7/9	7/10	7/11	7/12
A1234		20			
B4567					
C7890		30	15		

C3 - EXAMPLE OF SENDING SIGNIFICANT QUANTITIES ONLY

- The 862 Shipping Schedule is a replacement transaction per part/purchase order/engineering change.
- For an individual part/purchase order/engineering change, being transmitted, only significant quantities need to be sent. This will replace all previous quantities for this part/purchase order/engineering change.
- There are a few ways in which a customer can handle changes to quantities in a part/purchase order/engineering change. The important thing is that the manner should be consistent.

An 862 is received on July 8, and results in the following requirements as of July 8:

LINBP*A1234~**
FST*50*C*D*990708~
FST*20*C*D*990710~
FST*25*C*D*990712~

QTY / Date	7/8	7/9	7/10	7/11	7/12
A1234	50		20		25

The 862 received on July 9, could have included all part/purchase order/engineering changes and the results would be the same as above:

LINBP*A1234~**
FST*50*C*D*990708~
FST*0*C*D*990709~
FST*20*C*D*990710~
FST*0*C*D*990711~
FST*25*C*D*990712~

QTY / Date	7/8	7/9	7/10	7/11	7/12
A1234	50		20		25