

866 Production Sequence

ANSI ASC X12 3010

Version: 4.0 Draft

Company:	Daimler Trucks North America, LLC (DTNA)
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866 Production Sequence

Functional Group=SQ

Purpose: This standard provides the format and establishes the data contents of the Production Sequence Transaction Set within the context of an Electronic Data Interchange (EDI) environment. This transaction set provides for the receiver of goods to request the order in which shipments of goods arrive, or to specify the order in which the goods are to be unloaded from the conveyance method, or both. This specifies the sequence in which the goods are to enter the materials handling process, or are to be consumed in the production process, or both. This transaction set shall not be used to authorize labor, materials, or other resources. This transaction set shall not be used to revise any product characteristic specification.

Transaction Set Notes:

The 866 (Production Sequence), also known as Line Sequence, transaction set provides the ability for Daimler Trucks North America to convey a precise shipping schedule to its suppliers and is intended to supplement the 830 (Planning Schedule w/ Release Capability) transaction set. This transaction set must be used to determine which parts/quantities to Ship and when in lieu of using the 830 when implemented with supplier, however, the 866 shall not be used to authorize labor, materials or other resources. Furthermore, shipments from a line sequence supplier (typically on a daily basis) shall be physically organized in such a way that the material can be unloaded from the shipping container at the ship-to location in vehicle build/assembly sequence, i.e. parts for build sequence #001 vehicle are first off the trailer, #002 next, and so on. The material should also be grouped in the container by shop address for each vehicle so all part(s) for vehicle #001 destined for shop address XXXXX in the plant for example are unloaded together first, followed by YYYYY, etc., then repeat for vehicle #002, etc. The 830 transaction set should be used by the supplier for long range planning/forecasting only (requirements beyond the 866 horizon end date) for part numbers included in the 866.

NOTE: It is possible for a single supplier to provide material to manufacturing locations via line sequence (866), line set (see 862 (Shipping Schedule) transaction), and/or standard release (see 830 (Planning Schedule w/Release Capability) transaction) mechanisms; the 866 and 862 transactions take precedence over the 830 for part numbers included as applicable.

Use of this transaction set will facilitate the practice of Just-In-Time (JIT) manufacturing regarding parts that are consumed on a regular basis in the assembly process and are per serially allocated, i.e. specific occurrences of line sequence parts are to be assembled on/within specific vehicles. Shipping schedules for parts not per serially allocated are conveyed via the 862 (Shipping Schedule) transaction set. Therefore, the primary difference between the 866 and 862 transaction sets is the inclusion of vehicle serial numbers (with assembly/build sequence for each at Ship-to location) in the 866.

Contents/Organization:

An EDI 866 transmission (ISA through IEA segment) can consist of multiple transaction sets, one transaction set (ST through SE segment) per Ship-to location. Transaction sets are presented in Ship-to location sequence within a transmission.

Within each transaction set, requirements are sequenced by requested delivery date (DTM loop), job ("build/assembly") sequence, and part number. Shipping requirements for each ship-to location will span a delivery date range from current date (plus lead time offset) through 1 - 20 production days out into the future; this range (which can vary by ship-to location) is maintained by the Material Planning department and will be agreed upon with the supplier when the transaction is implemented. 856 (Ship Notice/Manifest) transactions received from the supplier will not be netted against the requirements, i.e. the quantities presented reflect the amount of each part to be consumed in the assembly process by vehicle, in other words, gross requirements are being conveyed. It is assumed that no safety stock (additional quantity on hand) is being maintained for parts included at the ship-to location; the intention is for this material to be fed directly into the build/assembly process as required. The supplier must ship the parts included (see LIN segment) for the quantities specified (see QTY segment) so they arrive at the Ship-to location on the date specified (see DTM segment); no ship quantity calculations are necessary based on the 866 data.

NOTE: It will be requested that line sequence suppliers include REF*VT segments in the 856 transaction for parts shipped via the 866. The REF*VT segment indicates for which vehicle serial number(s) the material is being shipped and will cause the parts to be flagged as shipped. Part/vehicle serial number combinations which are flagged as shipped will not be included in subsequent 866 transaction data to the supplier; this becomes significant in the event that a vehicle is rescheduled in the future after material and an 856 transaction has been shipped/transmitted. In this case, if a shipped part/vehicle number combination has not been flagged properly via a REF*VT segment, 866 data for the vehicle will be regenerated and transmitted when the vehicle's scheduled chassis start date reenters the supplier's 866 data horizon, which in turn may result in duplicate shipments of material from the supplier.

Example (general):

ISA*00* *00* *ZZ*FTL MFG *ZZ*AB12 MFG *140203*2013*U*00200*100000001*0*P*|^

GS*SQ*FTL MFG*AB12 MFG*140203*2013*200002*X*003010^

ST*866*3003^

BSS*05*01*140203*JS*140203*140212*01^

UIT*EA^

N1*SI*FTL^

N1*SU*CM^

N1*ST*TMP*92*001^

DTM*002*140204^

DTM*010*140202^

QTY*01*1^

REF*LF*A^

LIN**BP*CM 10001341*VV*Y92212*JS*001*PO*A01665*PL*838*ZZ*450^

QTY*01*2^

LIN**BP*CM 10001344*VV*Y92212*JS*001*PO*A01665*PL*841*ZZ*450^

QTY*01*2^

LIN**BP*CM 10016536*VV*Y88210*JS*002*PO*A04894*PL*026*ZZ*418^

QTY*01*2^

LIN**BP*CM 10001341*VV*Y88210*JS*002*PO*A01665*PL*838*ZZ*450^

QTY*01*2^

LIN**BP*CM 10001344*VV*Y88210*JS*002*PO*A01665*PL*841*ZZ*450^

QTY*01*2^

LIN**BP*CM 10016548*VV*W77195*JS*004*PO*A04894*PL*036*ZZ*418^

QTY*01*2^

LIN**BP*CM 10001597*VV*W77195*JS*004*PO*A01665*PL*907*ZZ*450^

QTY*01*2^

LIN**BP*CM 10001600*VV*W77195*JS*004*PO*A01665*PL*910*ZZ*450^

QTY*01*2^

LIN**BP*CM 10016548*VV*W77208*JS*006*PO*A04894*PL*036*ZZ*418^

QTY*01*2^

LIN**BP*CM 10001597*VV*W77208*JS*006*PO*A01665*PL*907*ZZ*450^

QTY*01*2^

LIN**BP*CM 10001600*VV*W77208*JS*006*PO*A01665*PL*910*ZZ*450^

QTY*01*2^

DTM*002*140205^

DTM*010*140202^

QTY*01*1^

REF*LF*A^

LIN**BP*CM 10016536*VV*X71702*JS*001*PO*A04894*PL*026*ZZ*418^

QTY*01*2^

LIN**BP*CM 10004031*VV*X71702*JS*001*PO*A01665*PL*862*ZZ*450^

QTY*01*2^

LIN**BP*CM 10004034*VV*X71702*JS*001*PO*A01665*PL*865*ZZ*450^

QTY*01*2^

LIN**BP*CM 10016535*VV*X38289*JS*002*PO*A04894*PL*025*ZZ*418^

QTY*01*2^

LIN**BP*CM 10001339*VV*X38289*JS*002*PO*A01665*PL*836*ZZ*450^

QTY*01*2^

LIN**BP*CM 10001342*VV*X38289*JS*002*PO*A01665*PL*839*ZZ*450^

QTY*01*2^

LIN**BP*CM 108168*VV*Y33343*JS*003*PO*A01665*PL*703*ZZ*418^

QTY*01*4^

LIN**BP*CM 10001339*VV*Y33343*JS*003*PO*A01665*PL*836*ZZ*450^

QTY*01*2^

LIN**BP*CM 10001342*VV*Y33343*JS*003*PO*A01665*PL*839*ZZ*450^

QTY*01*2^

LIN**BP*CM 10016535*VV*W63025*JS*004*PO*A04894*PL*025*ZZ*418^

QTY*01*2^

LIN**BP*CM 10001596*VV*W63025*JS*004*PO*A01665*PL*906*ZZ*450^

QTY*01*2^

LIN**BP*CM 10001599*VV*W63025*JS*004*PO*A01665*PL*909*ZZ*450^

QTY*01*2^

LIN**BP*CM 10001128*VV*Y41298*JS*005*PO*A01665*PL*882*ZZ*418^

QTY*01*2^

LIN**BP*CM 10001339*VV*Y41298*JS*005*PO*A01665*PL*836*ZZ*450^

QTY*01*2^

LIN**BP*CM 10001342*VV*Y41298*JS*005*PO*A01665*PL*839*ZZ*450^

QTY*01*2^

CTT*26^

SE*68*3003^

GE*3*200002^

IEA*1*100000001^

Example (Seat Supplier - DTNA HQ):

ISA*00* *00* *ZZ*FTL MFG *ZZ*AB12 MFG *140204*1024*U*00200*100000002*0*P*|^

GS*SQ*FTL MFG*AB12 MFG*140204*1024*200003*X*003010^

ST*866*3004^

BSS*05*01*140204*JS*140204*140213*01^

UIT*EA^

N1*SI*FTL^

N1*SU*CM^

N1*ST*TMP*92*001^

DTM*002*140205^

DTM*010*140203^

QTY*01*1^

REF*LF*A^

LIN**BP*S10001347*VV*Z92219*JS*002*PO*A09667*PL*738*ZZ*450^

QTY*01*2^

NTE*ZZZ*LEFT SIDE^

LIN**BP*S10001374*VV*X92210*JS*003*PO*A09667*PL*342*ZZ*450^

QTY*01*2^

NTE*ZZZ*TRACK MOUNT^

LIN**BP*S10016539*VV*D88214*JS*001*PO*A08892*PL*123*ZZ*418^

NTE*ZZZ*CENTER^

LIN**BP*S10001742*VV*Z88211*JS*001*PO*A09667*PL*427*ZZ*450^

QTY*01*2^

NTE*ZZZ*RIGHT SIDE^

CTT*4^

SE*23*3004^

GE*3*200003^

IEA*1*100000002^

Example (Seat Supplier - TBB):

ISA*00* *00* *ZZ*FTL MFG *ZZ*AB12 MFG *140205*1147*U*00301*100000003*0*P*|^

GS*SQ*FTL MFG*AB12 MFG*140205*1147*200004*X*003010^

ST*866*3005^

BSS*05*01*140205*JS*140206*140214*01^

UIT*EA^

N1*SI*FTL^

N1*SU*CM^

N1*ST*TMP*92*001^

DTM*002*140206^

DTM*010*140204^

QTY*01*1^

REF*LF*A^

LIN**BP*B12345678*VV*B92214*JS*001*PO*G09558*PL*332*ZZ*450^

REF*P5*LEFT^

REF*PG*38000*TRACK MOUNT^

REF*ZZ**BLK HDREST^

QTY*01*2^

LIN**BP*B12345689*VV*D92217*JS*002*PO*G09558*PL*441*ZZ*450^

REF*PG*38000*TRACK MOUNT^

QTY*01*2^

LIN**BP*B12344723*VV*L88212*JS*003*PO*G08982*PL*227*ZZ*418^

REF*P5*RIGHT*GRN CVR OPT^

LIN**BP*B12345674*VV*K88215*JS*002*PO*G09623*PL*424*ZZ*450^

REF*P5*CENTER BACK^

QTY*01*2^

CTT*4^

SE*25*3005^

GE*3*200004^

IEA*1*100000003^

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header (Start)	M	1			Must use
010	ST	Transaction Set Header	M	1			Must use
020	BSS	Beginning Segment For Shipping Schedule/Production Sequence.	M	1			Must use
030	UIT	Unit Detail	O	1			Used
LOOP ID - N1					≥1		
040	N1	Name	O	1			Used
LOOP ID - DTM					100		
110	DTM	Date/Time Reference	M	1			Must use
130	QTY	Quantity	O	1			Used
140	REF	Reference Numbers	O	>1			Used
LOOP ID - LIN					≥1		
150	LIN	Item Identification	O	1			Used
160	REF	Reference Numbers	O	>1			Used
170	QTY	Quantity	O	1			Used
175	NTE	Note	O	2			Used
180	CTT	Transaction Totals	M	1		N1/180	Must use
190	SE	Transaction Set Trailer	M	1			Must use

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

1/180 The number of line items (CTT01) is the accumulation of the number of LIN segments.

ISA Interchange Control Header

Pos:	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	Must use
Description: Code to identify the type of information in the Authorization Information.						
CodeList Summary (Total Codes: 2, Included: 1)						
<u>Code</u> <u>Name</u>						
00 No Authorization Information Present (No Meaningful Information in I02)						
ISA02	I02	Authorization Information	M	AN	10/10	Must use
Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier. DTNA does not use Authorization Information. This element should be populated entirely with space characters.						
ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use
Description: Code to identify the type of information in the Security Information.						
CodeList Summary (Total Codes: 2, Included: 1)						
<u>Code</u> <u>Name</u>						
00 No Security Information Present (No Meaningful Information in I04)						
ISA04	I04	Security Information	M	AN	10/10	Must use
Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier. DTNA does not use Security Information. This element should be populated entirely with space characters.						
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. For the DTNA implementation all standard codes are used, however, the most common ISA ID qualifier is "ZZ" (Mutually Defined).						
All valid standard codes are used. (Total Codes: 11)						
ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element.						
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. For the DTNA implementation all standard codes are used, however, the most common ISA ID qualifier is "ZZ" (Mutually Defined).						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
All valid standard codes are used. (Total Codes: 11)						
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use
		Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them.				
ISA09	I08	Interchange Date	M	DT	6/6	Must use
		Description: Date of the interchange.				
ISA10	I09	Interchange Time	M	TM	4/4	Must use
		Description: Time of the interchange.				
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	Must use
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.				
		CodeList Summary (Total Codes: 2, Included: 1)				
		<u>Code</u> <u>Name</u>				
		U U.S. EDI Community of ASC X12, TDCC, and UCS				
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Must use
		Description: This version number covers the interchange control segments only. Position: 1-3 of the field = major version number, 4-5 of the field = release level of the version.				
		CodeList Summary (Total Codes: 2, Included: 1)				
		<u>Code</u> <u>Name</u>				
		00200 Standard Issued as ANSI X12.5-1987				
ISA13	I12	Interchange Control Number	M	N0	9/9	Must use
		Description: This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID, it uniquely identifies the interchange data to receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.				
ISA14	I13	Acknowledgment Requested	M	ID	1/1	Must use
		Description: Code sent by the sender to request an interchange acknowledgment). The code "0" in this element indicates that TA1 interchange-level acknowledgements are not requested or sent by DTNA. Please note that a TA1 interchange acknowledgement is different than a 997 Functional Acknowledgement. DTNA requires that a 997 Functional Acknowledgement be returned by trading partners for all EDI transactions that are sent outbound from DTNA.				
		CodeList Summary (Total Codes: 2, Included: 1)				
		<u>Code</u> <u>Name</u>				
		0 No Acknowledgment Requested				
ISA15	I14	Test Indicator	M	ID	1/1	Must use
		Description: Code to indicate whether data enclosed by this interchange envelope is test or production.				
		CodeList Summary (Total Codes: 3, Included: 2)				

Code Name

P Production Data

T Test Data

ISA16	I15	Sub Element Separator	M	AN	1/1	Must use
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Description: This is a field reserved for future expansion in separating data element subgroups. (Currently this should be the same as the data element separator.) For the DTNA implementation all valid separators and terminators are allowed, provided they are unique among each other. However, DTNA's preferred delimiters are listed below:

Preferred Element Separators:

"*" - Asterisk (ASCII Hex "2A")

"~" - Tilde (ASCII Hex "7E")

"``" - Acute (ASCII Hex "60")

Preferred Segment Terminators:

"^" - Caret (ASCII Hex "5E")

"~" - Tilde (ASCII Hex "7E")

"|" - Pipe (ASCII Hex "7C")

GS Functional Group Header (Start)

Pos:	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

Purpose: To start and identify a functional group of related transaction sets and provide control and application identification information..

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier	M	ID	2/2	Must use
		Description: Code identifying a group of application related Transaction Sets.				
GS02	142	Application Sender's Code	M	ID	2/12	Must use
		Description: Identification number of party sending transmission (as mutually agreed between parties).				
GS03	124	Application Receiver's Code	M	ID	2/12	Must use
		Description: Identification Code of party receiving transmission (as mutually agreed between parties).				
GS04	29	Data Interchange Date	M	DT	6/6	Must use
		Description: Date sender generated a functional group of transaction sets.				
GS05	30	Data Interchange Time	M	TM	4/4	Must use
		Description: Time expressed in 24-hour clock time when the sender generated a functional group of transaction sets (local time at sender's location).				
GS06	28	Data Interchange Control Number	M	N0	1/9	Must use
		Description: Assigned number originated and maintained by the sender.				
GS07	455	Responsible Agency Code	M	ID	1/2	Must use
		Description: Code used in conjunction with the element 480 to identify the issuer of the standard.				
		CodeList Summary (Total Codes: 2, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		X	Accredited Standards Committee X12			
GS08	480	Version	M	ID	1/12	Must use
		Description: The Version Code is used in conjunction with the Functional Identifier to specify an exact version of an EBDI standard. Format of the version is: Positions: 1-3 = Major Version Number, 4-6 = Release Level of Version, 7-12 = Industry or Trade Association ID (Optionally assigned by user).				

Semantics:

1. The data interchange control number (GS06) in this header must be identical to the same data element in the associated Functional Group Trailer (GE02).

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer. The functional group ID's (GS01) are listed below along with the transaction sets included in each functional group. "QG" = Quotation Related Transactions 832 - Price/Sales Catalog 840 - Request for Quote 843 - Response to Request for Quote "PO" = Purchase Order Related Transactions 830 - Planning Schedule 850 - Purchase Order 855 - Purchase Order Acknowledgment 860 - Order Change Request 865 - Order Change Request Acknowledgment 869 - Order Status Inquiry 870 - Order Status Report "IN" = Invoice Related Transaction 810 - Invoice 820 - Remittance/Payment Advice "SH" = Shipment Related Transactions 857 - Notice of Readiness to Ship 856 - Ship Notice 858 - Shipping Documentation 859 - Post Shipment Documentation 861 - Receiving Advice "FA" = Functional Acknowledgment Transaction 997 - Functional Acknowledgment "EF" = Electronic Form Transfer Structure 868 - Electronic Form Transfer Structure The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. In some instances, by mutual agreement between interchange partners, the application sender's code (GS02) and the applications receiver's code (GS03) may be used to identify interchange parties. However, the N1 loop within the transaction set normally provides the most efficient method of organizational identification, and is recommended for this purpose. (This note will be changed in the next version/release in accordance with DM #174 - See Change Summary)

ST Transaction Set Header

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set.

CodeList Summary (Total Codes: 163, Included: 1)

Code Name

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ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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Description: Identifying control number assigned by the originator for a transaction set.

Comments:

1. The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

BSS Beginning Segment For Shipping Schedule/Production Sequence.

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 7

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSS01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
Description: Code identifying purpose of transaction set.						
CodeList Summary (Total Codes: 24, Included: 1)						
Code Name						
05 Replace						
BSS02	127	Reference Number	M	AN	1/30	Must use
Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.						
BSS03	373	Date	M	DT	6/6	Must use
Description: Date (YYMMDD).						
BSS04	675	Schedule Type Qualifier	M	ID	2/2	Must use
Description: Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast.						
CodeList Summary (Total Codes: 10, Included: 1)						
Code Name						
JS Buyer Production Sequence Schedule						
BSS05	373	Date	M	DT	6/6	Must use
Description: Date (YYMMDD).						
Note: Horizon Start Date will equal current date + lead time offset.						
BSS06	373	Date	M	DT	6/6	Must use
Description: Date (YYMMDD).						
Note: Horizon End Date will equal Horizon start date + N production days, where N = up to 20 days.						
BSS07	328	Release Number	C	AN	1/30	Used
Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction.						

Comments:

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.)

UIT Unit Detail

Pos: 030	Max: 1
Heading - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

Purpose: To specify item unit data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
UIT01	355	Unit of Measurement Code	M	ID	2/2	Must use

Description: Code identifying the basic unit of measurement.

CodeList Summary (Total Codes: 425, Included: 1)

<u>Code</u>	<u>Name</u>
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EA	Each
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Comments:

1. This segment is used to convey the purchasing Unit of Measure for all quantities relating to the part/item numbers in subsequent LIN segments.

Loop Name

Pos: 040	Repeat: >1
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

Purpose: To identify a party by type of organization, name and code

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
040	N1	Name	O	1		Used

N1 Name

Pos: 040	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: To identify a party by type of organization, name and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	Entity Identifier Code	M	ID	2/2	Must use

Description: Code identifying an organizational entity or a physical location.

CodeList Summary (Total Codes: 164, Included: 3)

Code Name

SI Shipping Schedule Issuer

ST Ship To

SU Supplier/Manufacturer

N102	93	Name	C	AN	1/35	Used
------	----	------	---	----	------	------

Description: Free-form name.

If N101 = "SI", then N102 will always = "FTL";

If N101 = "SU", then N102 will = supplier's 4 position assigned vendor code;

If N101 = "ST", then N102 will = ship-to location's 3 position abbreviation.

N103	66	Identification Code Qualifier	C	ID	1/2	Used
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Description: Code designating the system/method of code structure used for Identification Code (67).

CodeList Summary (Total Codes: 41, Included: 1)

Code Name

92 Assigned by Buyer or Buyer's Agent

N104	67	Identification Code	C	ID	2/17	Used
------	----	---------------------	---	----	------	------

Description: Code identifying a party.

Will equal Ship-to location code – Only used when N101 = "ST".

Syntax Rules:

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

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.

Loop Date/Time Reference

Pos: 110	Repeat: 100
Mandatory	
Loop: DTM	Elements: N/A

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
110	DTM	Date/Time Reference	M	1		Must use
130	QTY	Quantity	O	1		Used
140	REF	Reference Numbers	O	>1		Used
150		Loop LIN	O		>1	Used

DTM Date/Time Reference

Pos: 110	Max: 1
Heading - Mandatory	
Loop: DTM	Elements: 2

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time.

CodeList Summary (Total Codes: 170, Included: 2)

Code Name

002 Delivery Requested

010 Requested Ship

DTM02	373	Date	M	DT	6/6	Must use
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Description: Date (YYMMDD).

QTY Quantity

Pos: 130	Max: 1
Heading - Optional	
Loop: DTM	Elements: 2

User Option (Usage): Used

Purpose: To specify quantity information.

This segment is used to specify the ship quantity for all part numbers in subsequent LIN segments. A QTY segment where element QTY02 = 001 will immediately follow each DTM segment. If a ship quantity > 001 is required, a QTY segment will immediately follow the LIN segment for part number required as applicable (QTY02 will indicate the quantity required); additional QTY segments apply to the part number in LIN segment immediately following. If QTY does not follow LIN, then ship quantity = 001 should be assumed (value in element QTY02 in first QTY segment within DTM loop).

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
QTY01	673	Quantity Qualifier	M	ID	2/2	Must use
Description: Code specifying the type of quantity.						
CodeList Summary (Total Codes: 84, Included: 1)						
<u>Code</u> <u>Name</u>						
01 Discrete Quantity						
QTY02	380	Quantity	M	R	1/10	Must use
Description: Numeric value of quantity.						

REF Reference Numbers

Pos: 140	Max: >1
Heading - Optional	
Loop: DTM	Elements: 2

User Option (Usage): Used

Purpose: To specify identifying numbers.

This segment is used to specify on which assembly line (within the ship-to location) the vehicle serial numbers in subsequent LIN segments are scheduled to be built. Presently, only the Cleveland Truck Plant (location code/abbreviation = "004"/"CLE") has multiple assembly lines (two: lines A and B); all others have only one (line A), but this is subject to change.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Number Qualifier	M	ID	2/2	Must use

Description: Code qualifying the Reference Number.

CodeList Summary (Total Codes: 383, Included: 2)

Code Name

LF	Assembly Line Feed Location
ZZ	Mutually Defined

REF02	127	Reference Number	M	AN	1/30	Must use
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Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Loop Item Identification

Pos: 150	Repeat: >1
Optional	
Loop: LIN	Elements: N/A

User Option (Usage): Used

Purpose: To specify basic item identification data.

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
150	LIN	Item Identification	O	1		Used
160	REF	Reference Numbers	O	>1		Used
170	QTY	Quantity	O	1		Used
175	NTE	Note	O	2		Used

LIN Item Identification

Pos: 150	Max: 1
Heading - Optional	
Loop: LIN	Elements: 16

User Option (Usage): Used

Purpose: To specify basic item identification data.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).

CodeList Summary (Total Codes: 197, Included: 1)

Code Name

BP Buyer's Part Number

LIN03	234	Product/Service ID	M	AN	1/30	Must use
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Description: Identifying number for a product or service.

Item number.

LIN04	235	Product/Service ID Qualifier	O	ID	2/2	Used
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).

CodeList Summary (Total Codes: 197, Included: 1)

Code Name

VV Motor Vehicle ID Number

LIN05	234	Product/Service ID	C	AN	1/30	Used
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Description: Identifying number for a product or service.

Vehicle/serial number requiring part/item number in LIN03.

LIN06	235	Product/Service ID Qualifier	O	ID	2/2	Used
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).

CodeList Summary (Total Codes: 197, Included: 1)

Code Name

JS Job Sequence Number

LIN07	234	Product/Service ID	C	AN	1/30	Used
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Description: Identifying number for a product or service.

Vehicle job sequence number, i.e. vehicle serial number in LIN05 will be the Nth vehicle assembled on date/assembly line (see DTM and REF segments for date/line feed location).

LIN08	235	Product/Service ID Qualifier	O	ID	2/2	Used
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CodeList Summary (Total Codes: 197, Included: 1)						
<u>Code</u> <u>Name</u>						
PO Purchase Order Number						
LIN09	234	Product/Service ID	C	AN	1/30	Used
Description: Identifying number for a product or service.						
Purchase order number associated with part/item number in LIN03.						
LIN10	235	Product/Service ID Qualifier	O	ID	2/2	Used
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).						
CodeList Summary (Total Codes: 197, Included: 1)						
<u>Code</u> <u>Name</u>						
PL Purchaser's Order Line Number						
LIN11	234	Product/Service ID	C	AN	1/30	Used
Description: Identifying number for a product or service.						
Purchase order line number associated with part/item number in LIN03.						
LIN12	235	Product/Service ID Qualifier	O	ID	2/2	Used
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).						
CodeList Summary (Total Codes: 197, Included: 1)						
<u>Code</u> <u>Name</u>						
ZZ Mutually Defined						
LIN13	234	Product/Service ID	C	AN	1/30	Used
Description: Identifying number for a product or service.						
Shop address where part/item number in LIN03 will be stored within ship-to location.						
LIN14	235	Product/Service ID Qualifier	O	ID	2/2	Used
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).						
CodeList Summary (Total Codes: 197, Included: 2)						
<u>Code</u> <u>Name</u>						
AB Assembly						
PD Part Number Description						
LIN15	234	Product/Service ID	C	AN	1/30	Used
Description: Identifying number for a product or service.						
Bill of Material number calling out part/item number in LIN03 on vehicle serial number in LIN05.						
LIN16	235	Product/Service ID Qualifier	O	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). CodeList Summary (Total Codes: 197, Included: 1) <u>Code</u> <u>Name</u> EC Engineering Change Level				
LIN17	234	Product/Service ID	C	AN	1/30	Used
		Description: Identifying number for a product or service. Manufacturing Revision level.				

Syntax Rules:

1. C0405 - If LIN04 is present, then LIN05 is required.
2. C0607 - If LIN06 is present, then LIN07 is required.
3. C0809 - If LIN08 is present, then LIN09 is required.
4. C1011 - If LIN10 is present, then LIN11 is required.
5. C1213 - If LIN12 is present, then LIN13 is required.
6. C1415 - If LIN14 is present, then LIN15 is required.
7. C1617 - If LIN16 is present, then LIN17 is required.

Comments:

1. LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

REF Reference Numbers

Pos: 160	Max: >1
Heading - Optional	
Loop: LIN	Elements: 3

User Option (Usage): Used

Purpose: To specify identifying numbers.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Number Qualifier	M	ID	2/2	Must use

Description: Code qualifying the Reference Number.

CodeList Summary (Total Codes: 383, Included: 3)

Code Name

P5	Position Code
PG	Product Group
ZZ	Mutually Defined

REF02	127	Reference Number	C	AN	1/30	Used
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Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

REF03	352	Description	C	AN	1/80	Used
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Description: A free-form description to clarify the related data elements and their content.

Syntax Rules:

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

Comments:

1. The LIN-Level REF segment is ONLY USED BY TBB for vendors supplying seat related material.
2. When REF01 = "P5" or REF01 = "PG" then REF02 is Required and REF03 is Optional.
3. When REF01 = "ZZ" then REF02 is Optional and REF03 is Required.

QTY Quantity

Pos: 170	Max: 1
Heading - Optional	
Loop: LIN	Elements: 2

User Option (Usage): Used

Purpose: To specify quantity information.

Only used when the quantity to be shipped is > 1.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
QTY01	673	Quantity Qualifier	M	ID	2/2	Must use

Description: Code specifying the type of quantity.

CodeList Summary (Total Codes: 84, Included: 1)

Code Name

01 Discrete Quantity

QTY02	380	Quantity	M	R	1/10	Must use
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Description: Numeric value of quantity.

NTE Note

Pos: 175	Max: 2
Heading - Optional	
Loop: LIN	Elements: 2

User Option (Usage): Used

Purpose: THIS IS A CUSTOM X12 SEGMENT FOR THE 866 v3010 TRANSACTION SET THAT IS USED BY DTNA HQ ONLY. The NTE segment provides information in a free-form format to meet purposes deemed necessary by and negotiated between the sender and receiver.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
NTE01	363	Note Reference Code	M	ID	3/3	Must use

Description: Code identifying the functional area or purpose for which the note applies.

CodeList Summary (Total Codes: 14, Included: 1)

Code Name

ZZZ Mutually Defined

NTE02	3	Free Form Message	M	AN	1/60	Must use
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Description: Free-form text.

Comments:

1. This segment is included only in 866 data transmitted to DTNA HQ vendors that supply seat related material. This segment could follow either the LIN or QTY segment (if the quantity required for that part is greater than one).

CTT Transaction Totals

Pos: 180	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 1

User Option (Usage): Must use

Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use

Description: Total number of line items in the transaction set, equal to the number of LIN Loops.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

SE Transaction Set Trailer

Pos: 190	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/6	Must use
Description: Total number of segments included in a transaction set including ST and SE segments.						
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
Description: Identifying control number assigned by the originator for a transaction set.						

Comments:

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

GE Functional Group Trailer

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	Number of Transaction Sets Included	M	N0	1/6	Must use
Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element						
GE02	28	Group Control Number	M	N0	1/9	Must use
Description: Assigned number originated and maintained by the sender						

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA Interchange Control Trailer

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5	Must use
Description: A count of the number of functional groups included in a transmission.						
IEA02	I12	Interchange Control Number	M	N0	9/9	Must use
Description: This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.						