

International Truck and Engine Corporation

EDI 846 -- Inventory Inquiry/Advice

VERSION: ANSI ASC X12 Version Release 4020 FINAL

Publication Date: February 15, 2001

Created: August 23, 2000 09:17 AM

846 Inventory Inquiry/Advice

Functional Group=IB

This Draft Standard for Trial Use contains the format and establishes the data contents of the Inventory Inquiry/Advice Transaction Set (846) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used in the following ways: (1) for a seller of goods and services to provide inventory information to a prospective purchaser, with no obligation to the purchaser to acquire these goods or services; (2) for a representative of a seller of goods and services to supply inventory information to that seller; (3) for one location to supply another location with inventory information; and (4) for an inquiry as to the availability of inventory with no obligation on the seller of goods and services to reserve that inventory.

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>
0100	ST	Transaction Set Header	M	1			Must use
0200	BIA	Beginning Segment for Inventory Inquiry/Advice	M	1			Must use
0400	CUR	Currency	O	1			Not used
0500	DTM	Date/Time Reference	O	10			Not used
0600	REF	Reference Identification	O	12			Used
0700	PER	Administrative Communications Contact	O	3			Not used
0750	MEA	Measurements	O	20			Not used

<u>LOOP ID - N1</u>						<u>5</u>	
0800	N1	Name	O	1			Used
0900	N2	Additional Name Information	O	2			Not used
1000	N3	Address Information	O	2			Not used
1100	N4	Geographic Location	O	1			Not used
1200	REF	Reference Identification	O	12			Not used
1300	PER	Administrative Communications Contact	O	3			Not used

<u>LOOP ID - LM</u>						<u>10</u>	
1400	LM	Code Source Information	O	1			Not used
1500	LQ	Industry Code	M	100			Not used

Detail:

<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>
<u>LOOP ID - LIN</u>						<u>10000</u>	
0100	LIN	Item Identification	M	1			Must use
0300	PID	Product/Item Description	O	200			Not used
0400	MEA	Measurements	O	40			Not used
0500	PKG	Marking, Packaging, Loading	O	25			Not used
1000	DTM	Date/Time Reference	O	10			Used
1100	CTP	Pricing Information	O	25			Not used
1200	CUR	Currency	O	1			Not used
1300	SAC	Service, Promotion, Allowance, or Charge Information	O	25			Not used
1400	REF	Reference Identification	O	>1			Not used
1500	PER	Administrative Communications Contact	O	3			Not used
2200	SDQ	Destination Quantity	O	500			Not used
2300	MAN	Marks and Numbers	O	1			Not used
2350	UIT	Unit Detail	O	5			Used
2400	CS	Contract Summary	O	1			Not used

<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>
2500	DD	Demand Detail	O	>1			Not used
2550	G53	Maintenance Type	O	1			Not used
2560	PCT	Percent Amounts	O	>1			Not used
2570	LDT	Lead Time	O	12			Not used
<u>LOOP ID - LM</u>					<u>10</u>		
2600	LM	Code Source Information	O	1			Not used
2700	LQ	Industry Code	M	100			Not used
<u>LOOP ID - SLN</u>					<u>1000</u>		
2800	SLN	Subline Item Detail	O	1			Not used
2900	PID	Product/Item Description	O	200			Not used
3000	MEA	Measurements	O	40			Not used
3100	PKG	Marking, Packaging, Loading	O	25			Not used
<u>LOOP ID - MAN</u>					<u>100</u>		
3120	MAN	Marks and Numbers	O	1			Not used
3140	MEA	Measurements	O	40			Not used
<u>LOOP ID - QTY</u>					<u>99</u>		
3200	QTY	Quantity	O	1			Used
3300	UIT	Unit Detail	O	12			Not used
3400	MEA	Measurements	O	25			Not used
3500	LDT	Lead Time	O	12			Not used
3550	DTM	Date/Time Reference	O	10			Not used
<u>LOOP ID - SCH</u>					<u>25</u>		
3600	SCH	Line Item Schedule	O	1			Not used
3700	MEA	Measurements	O	25			Not used
<u>LOOP ID - LM</u>					<u>>1</u>		
3750	LM	Code Source Information	O	1			Not used
3760	LQ	Industry Code	M	100			Not used
3800	LS	Loop Header	O	1			Not used
<u>LOOP ID - REF</u>					<u>>1</u>		
3900	REF	Reference Identification	O	1		N2/3900	Not used
4000	DTM	Date/Time Reference	O	>1			Not used
4100	N1	Name	O	1			Not used
<u>LOOP ID - LM</u>					<u>10</u>		
4200	LM	Code Source Information	O	1			Not used
4300	LQ	Industry Code	M	100			Not used
4400	LE	Loop Trailer	O	1			Not used
<u>LOOP ID - N1</u>					<u>200</u>		
4500	N1	Name	O	1			Used
4600	N2	Additional Name Information	O	2			Not used
4700	N3	Address Information	O	2			Not used
4800	N4	Geographic Location	O	1			Not used
4900	REF	Reference Identification	O	12			Not used
5000	PER	Administrative Communications Contact	O	3			Not used

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>
0100	CTT	Transaction Totals	O	1		N3/0100	Used
0200	SE	Transaction Set Trailer	M	1			Must use

Notes:

2/3900 The REF loop conveys serial number, lot number, and inventory data.

3/0100 Number of line items (CTT01) is the accumulation of number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (QTY02) of each QTY segment.

ST Transaction Set Header

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 3

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 Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must use
		<u>Code</u> <u>Name</u> 846 Inventory Inquiry/Advice				
ST02	329	Transaction Set Control Number Description: 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	Must use
ST03	1705	Implementation Convention Reference Description: Reference assigned to identify Implementation Convention	O	AN	1/35	Not used

Semantics:

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).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

All:
Example:
ST*846*0001 N/L

BIA Beginning Segment for Inventory Inquiry/Advice

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 6

To indicate the beginning of an Inventory Inquiry/Advice 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>
BIA01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 00 Original				
BIA02	755	Report Type Code Description: Code indicating the title or contents of a document, report or supporting item	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> MM Manufacturer Inventory Report				
BIA03	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Must use
BIA04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
BIA05	337	Time Description: 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	Not used
BIA06	306	Action Code Description: Code indicating type of action	O	ID	1/2	Not used

Semantics:

1. BIA03 identifies the number of the inquiry/advice that is transferred.
2. BIA04 identifies the date of the inquiry/advice that is transferred.
3. BIA05 identifies the time of the inquiry/advice that is transferred.

Engine:

Example:
BIA*00*MM*00025*20000606 N/L

REF Reference Identification

Pos: 0600	Max: 12
Heading - Optional	
Loop: N/A	Elements: 4

To specify identifying 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>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use
		<u>Code</u> <u>Name</u> IK Invoice Number Description: Manufacturer's invoice number for vehicle/component				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
REF03	352	Description Description: A free-form description to clarify the related data elements and their content	C	AN	1/80	Not used
REF04	C040	Reference Identifier Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	Comp		Not used
	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Not used
	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Not used
	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	C	ID	2/3	Not used
	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Not used
	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	C	ID	2/3	Not used
	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Not used

Syntax:

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

Semantics:

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

Engine:

Example:

REF*IK*00025 N/L

N1 Name

Pos: 0800	Max: 1
Heading - Optional	
Loop: N1	Elements: 6

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

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>						
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use						
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>MP</td> <td>Manufacturing Plant</td> </tr> <tr> <td>SU</td> <td>Supplier/Manufacturer</td> </tr> </table>	<u>Code</u>	<u>Name</u>	MP	Manufacturing Plant	SU	Supplier/Manufacturer				
<u>Code</u>	<u>Name</u>											
MP	Manufacturing Plant											
SU	Supplier/Manufacturer											
N102	93	Name Description: Free-form name	C	AN	1/60	Used						
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used						
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>92</td> <td>Assigned by Buyer or Buyer's Agent</td> </tr> </table>	<u>Code</u>	<u>Name</u>	92	Assigned by Buyer or Buyer's Agent						
<u>Code</u>	<u>Name</u>											
92	Assigned by Buyer or Buyer's Agent											
N104	67	Identification Code Description: Code identifying a party or other code All: International assigned Plant or Vendor Code. For Plant ship-to code see document of International Ship Codes.	C	AN	2/80	Used						
N105	706	Entity Relationship Code Description: Code describing entity relationship	O	ID	2/2	Not used						
N106	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	O	ID	2/3	Not used						

Syntax:

1. N102 R0203 -- At least one of N102 or N103 is required.
2. N103 P0304 -- If either N103 or N104 are present, then the others are 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.
2. N105 and N106 further define the type of entity in N101.

Engine:

Examples:
 N1*MP**92*040 N/L
 N1*SU**92*87878S1 N/L

LIN Item Identification

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 31

To specify basic item identification 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>				
LIN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used				
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>BP</td> <td>Buyer's Part Number</td> </tr> </table>	<u>Code</u>	<u>Name</u>	BP	Buyer's Part Number	M	ID	2/2	Must use
<u>Code</u>	<u>Name</u>									
BP	Buyer's Part Number									
LIN03	234	Product/Service ID Description: Identifying number for a product or service	M	AN	1/48	Must use				
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>PO</td> <td>Purchase Order Number</td> </tr> </table>	<u>Code</u>	<u>Name</u>	PO	Purchase Order Number	C	ID	2/2	Used
<u>Code</u>	<u>Name</u>									
PO	Purchase Order Number									
LIN05	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Used				
LIN06	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not used				
LIN07	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used				
LIN08	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not used				
LIN09	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used				
LIN10	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not used				
LIN11	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN12	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not used
LIN13	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used
LIN14	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not used
LIN15	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used
LIN16	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not used
LIN17	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used
LIN18	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not used
LIN19	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used
LIN20	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not used
LIN21	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used
LIN22	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not used
LIN23	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used
LIN24	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not used
LIN25	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used
LIN26	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number	C	ID	2/2	Not used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		used in Product/Service ID (234)				
LIN27	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used
LIN28	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not used
LIN29	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used
LIN30	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not used
LIN31	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Not used

Syntax:

1. LIN04 P0405 -- If either LIN04 or LIN05 are present, then the others are required.
2. LIN06 P0607 -- If either LIN06 or LIN07 are present, then the others are required.
3. LIN08 P0809 -- If either LIN08 or LIN09 are present, then the others are required.
4. LIN10 P1011 -- If either LIN10 or LIN11 are present, then the others are required.
5. LIN12 P1213 -- If either LIN12 or LIN13 are present, then the others are required.
6. LIN14 P1415 -- If either LIN14 or LIN15 are present, then the others are required.
7. LIN16 P1617 -- If either LIN16 or LIN17 are present, then the others are required.
8. LIN18 P1819 -- If either LIN18 or LIN19 are present, then the others are required.
9. LIN20 P2021 -- If either LIN20 or LIN21 are present, then the others are required.
10. LIN22 P2223 -- If either LIN22 or LIN23 are present, then the others are required.
11. LIN24 P2425 -- If either LIN24 or LIN25 are present, then the others are required.
12. LIN26 P2627 -- If either LIN26 or LIN27 are present, then the others are required.
13. LIN28 P2829 -- If either LIN28 or LIN29 are present, then the others are required.
14. LIN30 P3031 -- If either LIN30 or LIN31 are present, then the others are required.

Semantics:

1. LIN01 is the line item identification

Comments:

1. See the Data Dictionary for a complete list of IDs.
2. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Engine:

Examples:

LIN*1*BP*123456C1*PO*P000001 N/L
 LIN*2*BP*456789C1*PO*P000001 N/L

DTM Date/Time Reference

Pos: 1000	Max: 10
Detail - Optional	
Loop: LIN	Elements: 6

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 Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Must use				
		<table border="0"> <tr> <td style="padding-right: 20px;"><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>405</td> <td>Production</td> </tr> </table> Description: Used to identify dates and times that operations or processes were performed	<u>Code</u>	<u>Name</u>	405	Production				
<u>Code</u>	<u>Name</u>									
405	Production									
DTM02	373	Date Description: Date expressed as CCYYMMDD	C	DT	8/8	Used				
DTM03	337	Time Description: 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)	C	TM	4/8	Not used				
DTM04	623	Time Code Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O	ID	2/2	Not used				
DTM05	1250	Date Time Period Format Qualifier Description: Code indicating the date format, time format, or date and time format	C	ID	2/3	Not used				
DTM06	1251	Date Time Period Description: Expression of a date, a time, or range of dates, times or dates and times	C	AN	1/35	Not used				

Syntax:

1. DTM02 R020305 -- At least one of DTM02, DTM03 or DTM05 is required.
2. DTM04 C0403 -- If DTM04 is present, then DTM03 is required
3. DTM05 P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Engine:

Examples:
DTM*405*20000605 N/L
DTM*405*20000605 N/L

UIT Unit Detail

Pos: 2350	Max: 5
Detail - Optional	
Loop: LIN	Elements: 3

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	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	M	Comp		Must use						
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All: International will use all valid X12 codes. Most commonly used are defined below.	M	ID	2/2	Must use						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>EA</td> <td>Each</td> </tr> <tr> <td>PC</td> <td>Piece</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	EA	Each	PC	Piece				
<u>Code</u>	<u>Name</u>											
EA	Each											
PC	Piece											
	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not used						
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not used						
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not used						
	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not used						
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not used						
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not used						
	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not used						
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not used						
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not used						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not used
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not used
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not used
	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not used
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not used
UIT02	212	Unit Price Description: Price per unit of product, service, commodity, etc.	C	R	1/17	Used
UIT03	639	Basis of Unit Price Code Description: Code identifying the type of unit price for an item	O	ID	2/2	Not used

Syntax:

1. UIT03 C0302 -- If UIT03 is present, then UIT02 is required

Engine:

Examples:
UIT*EA*1.99 N/L
UIT*EA*5 N/L

QTY Quantity

Pos: 3200	Max: 1
Detail - Optional	
Loop: QTY	Elements: 4

To specify quantity 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>										
QTY01	673	Quantity Qualifier Description: Code specifying the type of quantity	M	ID	2/2	Must use										
		<table border="0"> <tr> <td style="padding-right: 20px;"><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>17</td> <td>Quantity on Hand</td> </tr> <tr> <td>99</td> <td>Quantity Used</td> </tr> <tr> <td></td> <td>Description: Quantity of units used</td> </tr> <tr> <td>V3</td> <td>Transfer Quantity</td> </tr> </table>	<u>Code</u>	<u>Name</u>	17	Quantity on Hand	99	Quantity Used		Description: Quantity of units used	V3	Transfer Quantity				
<u>Code</u>	<u>Name</u>															
17	Quantity on Hand															
99	Quantity Used															
	Description: Quantity of units used															
V3	Transfer Quantity															
QTY02	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used										
QTY03	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	O	Comp		Not used										
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Must use										
	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not used										
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not used										
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not used										
	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not used										
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not used										
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not used										
	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not used										

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not used
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not used
	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not used
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not used
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not used
	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not used
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not used
QTY04	61	Free-Form Message Description: Free-form information	C	AN	1/30	Not used

Syntax:

1. QTY02 R0204 -- At least one of QTY02 or QTY04 is required.
2. QTY02 E0204 -- Only one of QTY02 or QTY04 may be present.

Semantics:

1. QTY04 is used when the quantity is non-numeric.

Engine:

Examples:
QTY*99*100 N/L
QTY*99*50 N/L

N1 Name

Pos: 4500	Max: 1
Detail - Optional	
Loop: N1	Elements: 6

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

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>				
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use				
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> </table>	<u>Code</u>	<u>Name</u>	ST	Ship To				
<u>Code</u>	<u>Name</u>									
ST	Ship To									
N102	93	Name Description: Free-form name	C	AN	1/60	Not used				
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used				
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>92</td> <td>Assigned by Buyer or Buyer's Agent</td> </tr> </table>	<u>Code</u>	<u>Name</u>	92	Assigned by Buyer or Buyer's Agent				
<u>Code</u>	<u>Name</u>									
92	Assigned by Buyer or Buyer's Agent									
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/80	Used				
N105	706	Entity Relationship Code Description: Code describing entity relationship	O	ID	2/2	Used				
N106	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	O	ID	2/3	Used				

Syntax:

1. N102 R0203 -- At least one of N102 or N103 is required.
2. N103 P0304 -- If either N103 or N104 are present, then the others are 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.
2. N105 and N106 further define the type of entity in N101.

Engine:

Examples:
 N1*ST**92*RC n/l
 N1*ST**92*RC n/l

CTT Transaction Totals

Pos: 0100	Max: 1
Summary - Optional	
Loop: N/A	Elements: 7

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 Description: Total number of line items in the transaction set	M	N0	1/6	Must use
CTT02	347	Hash Total Description: 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 beinghashed..18 Second occurrence of value beinghashed.1.8 Third occurrence of value beinghashed.18.01 Fourth occurrence of value beinghashed.-----1855 Hash Total	O	R	1/10	Not used
CTT03	81	Weight Description: Numeric value of weight	C	R	1/10	Not used
CTT04	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Not used
CTT05	183	Volume Description: Value of volumetric measure	C	R	1/8	Not used
CTT06	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Not used
CTT07	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Not used

Syntax:

1. CTT03 P0304 -- If either CTT03 or CTT04 are present, then the others are required.
2. CTT05 P0506 -- If either CTT05 or CTT06 are present, then the others are required.

Comments:

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

Engine:

Example:
CTT*2 N/L

SE Transaction Set Trailer

Pos: 0200	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

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	1/10	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 that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

- SE is the last segment of each transaction set.

Engine:

Example:

SE*17*0001 N/L



International Truck and Engine Corporation

APPENDIX of EXAMPLES

February 15, 2001

NOTE: This document is to be used in conjunction with the International 846 Implementation Guideline to illustrate examples and functional definition of this transaction set.

Example of EDI 846 AIAG Formatted Data for Engine Division.

1. ST*846*0001 N/L
2. BIA*00*MM*00025*20000606 N/L
3. REF*IK*00025 N/L
4. N1*MP**92*040 N/
5. N1*SU**92*87878S1 N/L
6. LIN*1*BP*123456C1*PO*P000001 N/L
7. DTM*405*20000605 N/L
8. UIT*EA*1.99 N/L
9. QTY*99*100 N/L
10. N1*ST**92*RC N/L
11. LIN*2*BP*456789C1*PO*P000001 N/L
12. DTM*405*20000605 N/L
13. UIT*EA*5 N/L
14. QTY*99*50 N/L
15. N1*ST**92*RC N/L
16. CTT*2 N/L
17. SE*17*0001 N/L

Example of EDI 846 AIAG Formatted Data for Inventory Inquiry/Advice**EDI DATA ELEMENTS**ST*846*0001 N/LBIA*00*MM*00025*20000606 N/LREF*IK*00025 N/LN1*MP**92*040 NN1*SU**92*87878S1 N/LLIN*1*BP*123456C1*PO*P000001 N/LDTM*405*20000605 N/LUIT*EA*1.99 N/LQTY*99*100 N/LN1*ST**92*RC N/LLIN*2*BP*456789C1*PO*P000001 N/LDTM*405*20000605 N/LUIT*EA*5 N/LQTY*99*50 N/LN1*ST**92*RC N/LCTT*2 N/LSE*17*0001 N/L**INTERPRETATION**

ANSI Transaction set 846 Transaction ID number 0001.

Original Manufacturer Inventory Report. Reference Number is 00025. Report Date is 06/06/2000.

Invoice Number is 00025.

Manufacturing Plant code is 040.

International assigned Supplier Code is 87878S1.

First Buyer's Part Number is 123456C1. Purchase Order Number is P000001.

Production date is 06/05/2000.

Unit of measure for part number 123456C1 is "EA" for Each. The unit price is \$1.99.

Quantity Used is 100 pieces.

Identifies the ship to location is stockroom RC.

Second Buyer's Part Number is 456789C1. Purchase Order Number is P000001

Production date is 06/05/2000.

Unit of measure for part number 456789C1 is "EA" for Each. The unit price is \$5.00

Quantity Used is 100 pieces.

Identifies the ship to location is stockroom RC.

There were 2 LIN segments (Part Number records) contained in this transaction.

17 Segments Transmitted in Transaction 0001.