LEAR CORPORATION

IMPLEMENTATION GUIDELINES FOR AIAG (ASC X12) EDI CONVENTIONS

SHIP NOTICE / MANIFEST TRANSACTION SET (856)

LEAR CORPORATION ITC
24467 WEST TEN MILE RD
SOUTHFIELD, MI   48034

ASC X12

VERSION/RELEASE 002040

856 SHIP NOTICE / MANIFEST

This standard contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange(EDI) also know as Electronic Commerce(EC) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, markings, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information.

The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

SEGMENT USAGE OVERVIEW

HEADER SEGMENT DESCRIPTION TABLE

ST	M	Transaction Set Header
BSN	M	Beginning Segment
DTM	O	Date/Time Reference

DETAIL SEGMENT DESCRIPTION TABLE (SHIPMENT LEVEL)

HL	M	Hierarchical Level
MEA	O	Measurements
TD1	O	Carrier Details
TD5	O	Carrier Details
TD3	O	Carrier Details
REF	O	Reference Numbers
N1	O	Name
ETD	O	Excess Transport.Detail

DETAIL SEGMENT DESCRIPTION TABLE (ITEM LEVEL)

HL	M	Hierarchical Level
LIN	O	Item Identif Detail
SN1	O	Item Detail (Shipment)
PRF	O	Purchase Order Reference
CLD	O	Load Detail
REF	O	Reference Numbers
N1	O	Name
REF	O	Reference Numbers

SUMMARY SEGMENT DESCRIPTION TABLE

CTT	M	Transaction Totals
SE	M	Transaction Set Trailer

SEGMENT: ST - Transaction Set Header

LEVEL: Heading

MAX USAGE/LOOPS: 1/None

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

GENERAL
INFORMATION: The transaction set control number (ST02) in this
                           header must match the transaction set control number
                           (SE02) in the transaction set trailer (SE). This
                           segment is mandatory.

EXAMPLES: ST*856*001500001 N/L

ELEM ID	#	ELEM NAME	FEATURES
ST01	143	Transaction Set ID Code	M ID 03/03
		Use "856"	
ST02	329	Transaction Set Control Number	M AN 04/09
		A unique control number assigned to each transaction set within a functional group, starting with 0001 and incrementing by 1 for each subsequent transaction set. Same as SE02.	

SEGMENT:	BSN – Beginning Segment for Ship Notice
LEVEL:	Heading
MAX USAGE/LOOPS:	1/None
PURPOSE:	To transmit identifying numbers, dates and other basic data relating to the transaction set.
GENERAL INFORMATION:	The date and time are the local date and time at the creation point of the transaction set.
EXAMPLES:	BSN*00*123456*930217*0745 N/L

```
ELEM
ID       #      ELEMENT NAME                              FEATURES

BSN01 353      Transaction Set Purpose Code              M ID 02/02
               "00" = Original
               "01" = Cancellation
               "12" = Test data

BSN02 396      Ship Identification                       M AN 02/16
               A unique supplier assigned Shipment Identification (SID) number
               that is not repeated within a one year period.

BSN03 373      Date                                      M DT 06/06
               Local ASN Creation Date (YYMMDD)

BSN04 337      Time                                      M TM 04/04
               Local ASN Creation Time (HHMM) 24 hour clock.
```

SEGMENT:	DTM – Date/Time Reference
LEVEL:	Heading
MAX USAGE/LOOPS:	10/None
PURPOSE:	To specify pertinent dates and times
GENERAL INFORMATION:	One DTM segment in the heading area is mandatory to provide shipment date and time. Use date and time shipment leaves supplier's premises.
EXAMPLES:	DTM*011*930217*0745 N/L

```
ELEM
ID      #     ELEMENT NAME                                      FEATURES

DTM01   374   Date/Time Qualifier                               M ID 03/03
              011 = Local date and time shipment leaves supplier's premises.

DTM02   373   Date                                              M DT 06/06
              (YYMMDD)

DTM03   337   Time                                              M TM 04/04
              (HHMM) 24 Hour Clock.
```

TABLE 2: DATA SEGMENT SEQUENCE FOR DETAIL – (SHIPMENT LEVEL)

Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Lear Req.	Notes
HL	Hierarchical Level	M	1	HL/200000	Yes	Comment A
MEA	Measurements	O	40		Yes	
TD1	Carrier Details (Quantity and Weight)	O	20		Yes	
TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		Yes	
TD3	Carrier Details (Equipment)	O	12		Yes	
REF	Reference Numbers	O	200		Yes	
N1	Name	O	1	200	Yes	
ETD	Excess Transport.Detail	O	1		Yes	

Comment A: The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

SEGMENT: HL - Hierarchical Level

LEVEL: Detail - First Segment in Each Hierarchical Level

MAX USAGE/LOOPS: 1/HL/200,000

PURPOSE: To identify dependencies among and the content of
                        hierarchically related groups of data segments.

GENERAL
INFORMATION: The HL segment is used to identify levels of detail
                        information using a hierarchical structure, such as
                        relating line item data to shipment data and packaging data
                        to line item data.

                        At lease one occurrence of the HL loop is mandatory at both
                        Shipment and Item levels.

EXAMPLES: HL*1**S   N/L (Shipment Level - Mandatory)

ELEM
ID	#	ELEMENT NAME	FEATURES

HL01   628   Hierarchical ID Number   M AN 01/12
               "1" for the initial HL segment and incremented by 1 in each
               subsequent HL segment within the transaction set.

HL03   735   Hierarchical Level Code   M ID 01/02
               "S" = Shipment level

SEGMENT: MEA - Measurements

LEVEL: Detail (Shipment Hierarchical Level)

MAX USAGE/LOOPS: 40/HL

PURPOSE: To specify physical measurements including dimensions, tolerances, weights, and counts.

GENERAL
INFORMATION: One MEA segment for gross weight and one MEA segment for net weight are required at the Shipment level.
(Net weight is gross weight minus tare weight.)

EXAMPLES: MEA*PD*G*6000*LB N/L (Shipment level)
MEA*PD*N*4000*LB N/L (Shipment level)

ELEM ID	#	ELEMENT NAME	FEATURES
MEA01	737	Measurement Reference ID Code "PD" = Physical dimensions.	M ID 02/02
MEA02	738	Measurement Dimension Qualifier "G" = Gross weight (required) "N" = Net weight (required)	M ID 01/02
MEA03	739	Measurement Value Value referred to by MEA02	M R 01/08
MEA04	355	Unit of Measure "LB" = Pounds	O ID 02/02

SEGMENT: TD1 - Carrier Details (Quantity and Weight)

LEVEL: Detail (Shipment Hierarchical Level)

MAX USAGE/LOOPS: 20/HL

PURPOSE: To specify the transportation details relative to commodity, weight and quantity.

GENERAL
INFORMATION: Required at the Shipment level.
The TD1 segment should match what is on the Bill of Lading.

EXAMPLES: TD1*PLT90*2 N/L

ELEM ID	#	ELEMENT NAME	FEATURES
TD101	103	Packaging Code	M ID 05/05
		Use an appropriate AIAG container type code.	
TD102	80	Lading Quantity	M NO 01/03
		Number of packages (container quantity) of type specified in TD101.	

SEGMENT: TD5 - Carrier Details (Routing Sequence/Transit Time)

LEVEL: Detail (Shipment Hierarchical Level)

MAX USAGE/LOOPS: 12/HL

PURPOSE: To specify the carrier and sequence of routing and to
                       provide transit time information.

**GENERAL
INFORMATION:**   One TD5 segment is required at the Shipment level for each
                       ASN (856).

                       When multiple carriers are to be employed in the movement
                       of material, specify the originating carrier (the carrier
                       leaving the supplier's dock).

EXAMPLES: TD5*B*2*UPAC*M   N/L   (Trailer Load)
                       TD5*B*2*CETR*LT***CS*ORMSBY   N/L   (Less than Trailer Load
                                                           Consolidation)

ELEM
ID   #   ELEMENT NAME   FEATURES

TD501   133   Routing Sequence Code   O ID 01/02
                "B"=Originating Carrier

TD502   66   ID Code Qualifier   M ID 01/02
                "2" = Standard Carrier Alphabetic Code (SCAC Code)

TD503   67   ID Code   M ID 02/04
                SCAC for TD502.   Use carrier's SCAC code.

TD504   91   Transportation Method Code   M ID 01/02
                "LT"=Less than Trailer Load (LTL)
                "M" = Motor (Trailer Load)
                 Or valid AIAG codes.

TD507   309   Location Qualifier   O ID 01/02
                "PP" = Pool Point (for consolidation shipments).

TD508   310   Location Identifier   C AN 01/07
                If TD507 is "PP" use "ORMSBY"

SEGMENT:	TD3 - Carrier Details (Equipment)
LEVEL:	Detail (Shipment Hierarchical Level)
MAX USAGE/LOOPS:	12/HL
PURPOSE:	To specify transportation details relating to the equipment by the carrier.
GENERAL INFORMATION:	Only one TD3 segment is used per ASN (856) at the shipment level to state the identifying number of the trailer.
EXAMPLES:	TD3*TL**154268 N/L (Trailer)

```
ELEM
ID      #     ELEMENT NAME                              FEATURES


TD301   40    Equipment Description Code                M ID 02/02
              Use any acceptable code in the ANSI X12 Data Element
              Dictionary.

TD302   206   Equipment Initial                         O AN 01/04
              The alphabetic portion of the equipment identification.

TD303   207   Equipment Number                          M AN 01/10
              The trailer number for the shipment.
```

SEGMENT: REF – Reference Numbers

LEVEL: Detail (Shipment Hierarchical Level)

MAX USAGE/LOOPS: 200/HL

PURPOSE: To transmit identifying numbers.

GENERAL
INFORMATION: One REF segment is required for the Bill of Lading number
                      and packing slip number.

EXAMPLES: REF*BM*050217   N/L
                     REF*PK*1234567   N/L


```
ELEM
ID      #     ELEMENT NAME                              FEATURES

REF01   128   Reference Number Qualifier                M ID 02/02
              "BM" = Bill of Lading Number
              "PK" = Packing Slip number

REF02   127   Reference Number                          M AN 01/16
              Value referred to in REF01.
```

SEGMENT: N1 – Name

LEVEL: Detail (Shipment Hierarchical Level)

MAX USAGE/LOOPS: 1/N1/200/HL

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

GENERAL
INFORMATION: Use "SF" for the actual Ship-From location.
                      Use "ST" for the actual Ship-To location. These codes
                      should echo the codes in the N1 segments in the heading and
                      detail areas of the Material Release (830).

EXAMPLES: N1*SF**92*E22   N/L
                      N1*ST**92*0566   N/L

ELEM

ID	#	ELEMENT NAME	FEATURES
N101	98	Entity Identifier Code "SF" = Ship-From AST" = Ship-To	M ID 02/02
N103	66	ID Code Qualifier "92" = Buyer Assigned Code	M ID 02/02
N104	67	ID Code If N101 = "SF", use the LEAR assigned supplier code of the actual Ship-From location. If N101 = "ST", use the UTA assigned receiving plant code.	C ID 02/17

SEGMENT: ETD - Excess Transportation Detail

LEVEL: Detail (Shipment Hierarchical Level)

MAX USAGE/LOOPS: 1/HL

PURPOSE: To specify information relating to premium transportation.

GENERAL
INFORMATION: To identify the causes, responsibility, and authorization
number for a shipment that requires premium transportation.
Used when UTA gives authorization to use other than normal
routing.

EXAMPLES: ETD*ZZ*S*AE*123   N/L

```
ELEM
ID      #      ELEMENT NAME                               FEATURES

ETD01   626    Excess Transportation Reason Code          M ID 01/02
               Use "ZZ"

ETD02   627    Excess Transportation Responsibility Code   M ID 01/01
               "A" = UTA ultimate receiving plant responsibility
               "S" = Supplier responsibility

ETD03   128    Reference Number                            M ID 02/02
               Use "AE" for Qualifier Authorization for expense number.

ETD04   127    Reference Number                            M AN 08/08
               UTA assigned Authorization for Excess Transportation Charges
               (AETC)number.
```

TABLE 2: DATA SEGMENT SEQUENCE FOR DETAIL -(ITEM LEVEL)

Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Lear Req.	Notes
HL	Hierarchical Level	M	1	HL/200000	Yes	Comment A
LIN	Item Identif Detail	O	1		Yes	
SN1	Item Detail (Shipment)	O	1		Yes	
PRF	Purchase Order Reference	O	1		Yes	
CLD	Load Detail	O	1	CLD/200	Yes	
REF	Reference Numbers	O	200	CLD	Yes	
N1	Name	O	1	N1/200	Yes	
REF	Reference Numbers	O	200		Yes	

Comment A: The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

SEGMENT: HL - Hierarchical Level

LEVEL: Detail (Item Each Hierarchical Level)

MAX USAGE/LOOPS: 1/HL/200,000

PURPOSE: To identify dependencies among and the content of
                           hierarchically related groups of data segments.

GENERAL
INFORMATION: The HL segment is used to identify levels of detail
                           information using a hierarchical structure, such as
                           relating line item data to shipment data and packaging data
                           to line item data.

                           At lease one occurrence of the HL loop is mandatory at <u>both
                           Shipment and Item levels.</u>

EXAMPLES: HL*3*2*I   N/L (Item Level -- Mandatory)

ELEM
<u>ID</u>   <u>#</u>   <u>ELEMENT NAME</u>   <u>FEATURES</u>

HL01   628   Hierarchical ID Number   M AN 01/12
                 "1" for the initial HL segment and incremented by 1 in each
                 subsequent HL segment within the transaction set.

HL02   734   Hierarchical Parent ID   O AN 01/12
                 Required except for shipment level.

HL03   735   Hierarchical Level Code   M ID 01/02
                 "I" = Item level (Required).

SEGMENT: LIN – Order Identification Detail

LEVEL: Detail (Item Hierarchical Level)

MAX USAGE/LOOPS: 1/HL

PURPOSE: To specify basic order identification data.

GENERAL
INFORMATION: There should be one LIN segment in each Item level. The
                      LIN segment is used to identify the buyer's part number.
                      It may contain the vendor part number.

EXAMPLES: LIN**BP**EOVB 13A506 BB N/L (Part Number only)

ELEM
ID   #   ELEMENT NAME   FEATURES

LIN02   235   Product/Service ID Qualifier   M ID 02/02
               "BP" = Buyer's part number.

LIN03   234   Product/Service ID   M AN 01/30
               Use the UTA Released part number, found on the material
               release.

LIN04   235   Product/Service ID Qualifier   O ID 02/02
               "EC" = Engineering Change Level
               "VP" = Vendor Part Number

LIN05   234   Product/Service ID   O AN 01/30
               Vendor Part Number may be up to 30 characters.

LIN06   235   Product/Service ID Qualifier   O ID 02/02

LIN07   234   Product Service Code   O AN 01/30

NOTE: LIN08 through LIN31 provide 12 additional pairs of   Product/Service
ID Qualifier (235) and Product/Service ID (234).

SEGMENT: SN1 = Item Detail (Shipment)

LEVEL: Detail (Item Hierarchical Level)

MAX USAGE/LOOPS: 1/HL

PURPOSE: To specify line item detail relative to shipment.

GENERAL
INFORMATION: Used to show quantity being shipped, unit of measure, and
                      YTD cum shipped.

EXAMPLES: SN1**1440*PC*84000   N/L

ELEM
ID   #   ELEMENT NAME   FEATURES

SN102   382   Number of Units Shipped   M R 01/10
               Quantity shipped for the released part referenced in the
               associated LIN segment.

SN103   355   Unit of Measurement Code   M ID 02/02
               For SN102 & SN104.
               Use purchased parts unit of measure as shown on Material
               Release.

SN104   646   Quantity Shipped   O R 01/09
               Cumulative net quantity shipped for the current model year,
               including the quantity in SN102.

SEGMENT: PRF - Purchase Order Reference

LEVEL: Detail (Item Hierarchical Level)

MAX USAGE/LOOPS: 1/HL

PURPOSE: To provide reference to a specific purchase order.

GENERAL
INFORMATION: Used to show UTA Purchase Order number and amendments.

EXAMPLES: PRF*323B50534*026-80**920714

```
ELEM
ID        #     ELEMENT NAME                           FEATURES

PRF01    324    Purchase Order Number                  M AN 01/13
                Use purchase order number as shown on UTA Purchase Order,
                including amendments.

PRF02    328    Release Number                         O AN 01/30
                Use UTA issued Release Number.

PRF03    327    Change Order Sequence Number           O AN 01/08

PRF04    323    Purchase Order Date                    O DT 06/06
```

SEGMENT: CLD - Customer's Load Detail

LEVEL: Detail (item hierarchical level)

MAX USAGE/LOOPS: 1 per CLD loop whose max usage is 8 per HL

PURPOSE: Gives information concerning number of containers and
                        quantity per container.

GENERAL
INFORMATION: This segment is used by the supplier to inform UTA of the
                        number of containers (e.g.pallets), and the quantity per
                        container.

EXAMPLES: CLD*1*80*PLT90   N/L


```
ELEM
ID      #     ELEMENT NAME                              FEATURES

CLD01   622   Number of Customer Loads                  M NO 01/05
              Number of containers (skids, pallets etc.)

CLD02   382   Units Shipped                             M R 01/07
              Quantity per load (number of units per container)

CLD03   103   Packaging Code                            M ID 05/05
              Any ANSI defined code is acceptable. Typical codes are
              "PLT90 = pallet
              "BOX90" = box
              "LSE90" = loose
              "CTN90" = carton
              "SKD90" = skid
              "CRT90" = crate
              "RCK90" = rack
              "BIN90" = bin
```

SEGMENT: REF – Reference Numbers

LEVEL: Detail (item hierarchical level)

MAX USAGE/LOOPS: 200/HL

PURPOSE: To transmit identifying numbers.

GENERAL
INFORMATION: One REF segment is required for the Bill of Lading number
                      and packing slip number. These may be placed either at the
                      item or shipment level.

EXAMPLES: REF*BM*050217   N/L
                      REF*PK*1234567   N/L


```
ELEM
ID      #      ELEMENT NAME                               FEATURES


REF01   128    Reference Number Qualifier                 M ID 02/02
               "BM" = Bill of Lading Number
               "PK" = Packing Slip number

REF02   127    Reference Number                           M AN 01/16
               Value referred to in REF01.
```

SEGMENT: N1 – Name

LEVEL: Detail (item hierarchical level)

MAX USAGE/LOOPS: 1/N1/200/HL

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

GENERAL
INFORMATION: Use "SF" for the actual Ship-From location.
                      Use "ST" for the actual Ship-To location. These codes
                      should echo the codes in the N1 segments in the heading and
                      detail areas of the Material Release (830).

EXAMPLES: N1*SF**92*E22   N/L
                      N1*ST**92*0566   N/L

ELEM

ID	#	ELEMENT NAME	FEATURES
N101	98	Entity Identifier Code "SF" = Ship-From AST" = Ship-To	M ID 02/02
N103	66	ID Code Qualifier "92" = Buyer Assigned Code	M ID 02/02
N104	67	ID Code If N101 = "SF", use the LEAR assigned supplier code of the actual Ship-From location. If N101 = "ST", use the UTA assigned receiving plant code.	C ID 02/17

SEGMENT: REF – Reference Numbers

LEVEL: Detail (item hierarchical level)

MAX USAGE/LOOPS: 200 per CLD loop

PURPOSE: To transmit identifying numbers.

GENERAL
INFORMATION: Used to show shipping label serial numbers. (Not used in
                      CLD loop for primary metals.)

EXAMPLES: REF*LS*S23275   N/L
                      REF*LS*M874210   N/L
                      REF*DO*123   N/L

ELEM
ID   #   ELEMENT NAME   FEATURES

REF01   128   Reference Number Qualifier   M ID 02/02
                "LS" = bar coded shipping label
                "DO" = Kanban number

REF02   127   Reference Number   M AN 01/30
                Shipping label serial number or Kanban number.

TABLE 3: DATA SEGMENT SEQUENCE FOR SUMMARY

Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Lear Req.	Notes
CTT	Transaction Totals	M	1		YES	Note 1
SE	Transaction Set Trailer	M	1	YES		

Note 1:   Number of line items (CTT01) is the accumulation of the number of
           HL segments. If used, hash total (CTT02) is the sum of the value
           of units shipped (SN102) for each SN1 segment.

SEGMENT: CTT - Transaction Totals

LEVEL: Summary

MAX USAGE/LOOPS: 1/None

PURPOSE: To transmit a total of Hierarchical Level segments.

**GENERAL
INFORMATION:**   Used to provide the number of HL segments used in the ASN
                        transmitted. This total is used to cross-check that the
                        complete transaction set was received.

EXAMPLES: CTT*4 N/L

```
ELEM
ID      #      ELEMENT NAME                           FEATURES

CTT01   354    Number of Line Items                   M NO 01/06
               Total number of HL segments.
```

SEGMENT: SE – Transaction Set Trailer

LEVEL: Summary

MAX USAGE/LOOPS: 1/None

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).

GENERAL
INFORMATION: The transaction set control number value in this trailer
                       must match the same element value in the transaction set
                       header (ST02).

EXAMPLES: SE*51*0001 N/L

ELEM
ID	#	ELEMENT NAME	FEATURES
SE01	96	Number of Included Segments	M NO 01/06
SE02	329	Transaction set control Number Same as "ST02"	M AN 04/09