

# 650 Maintenance Service Order

Functional Group ID=**MO**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Maintenance Service Order Transaction Set (650) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set provides a uniform, singular medium for the exchange of maintenance related information among organizations involved in the reporting, requesting, scheduling, planning, estimating, coordinating and performing of maintenance actions. It provides the structure to convey maintenance-related information, including maintenance action directives, maintenance actions, cost estimates, maintenance action assignments, maintenance action status, and completion reports. This transaction set can be used in a bi-directional environment alone or in conjunction with the Project Schedule Reporting Transaction Set (806) to link schedule and maintenance action information as well as with the Specifications/Technical Information Transaction Set (841) to link maintenance-related, media independent, technical data.

## Notes:

*1. This transaction set is used by the Assembly Manager to provide Unit Assembly data to the Assembly Activity. The transaction may be used by the Assembly Activity to enter corrections, provide missing data and may also be used to transmit local changes and history data to the Assembly Manager.*

*2. DoD logistics users should refer to the Defense Logistics Management System (DLMS) Supplement to the Federal Implementation Convention (IC) available at URL: <http://www.dla.mil/j-6/dlms>. The DLMS Supplement provides specific business rules, conditions, and authorized codes necessary for appropriate use of this IC within the DLMS.*

## Heading:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
4	0100	ST	Transaction Set Header	M	1		
5	0200	BGN	Beginning Segment	M	1		
7	0300	REF	Reference Identification	O	>1		
9	0400	DTM	Date/Time Reference	O	>1		
LOOP ID - N1						>1	
10	0500	N1	Name	O	1		n1
Not Used	0600	N2	Additional Name Information	O	2		
Not Used	0700	N3	Address Information	O	2		
Not Used	0800	N4	Geographic Location	O	1		
Not Used	0900	PER	Administrative Communications Contact	O	>1		
Not Used	1000	REF	Reference Identification	O	>1		
LOOP ID - LM						>1	
Not Used	1100	LM	Code Source Information	O	1		

650A Assembly Component Maintenance Structure

Not Used	1200	LQ	Industry Code	M	>1
Not Used	1300	PER	Administrative Communications Contact	O	>1
Not Used	1400	REF	Reference Identification	O	>1

**Detail:**

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
LOOP ID - HL							>1
12	0100	HL	Hierarchical Level	M	1		n2
Not Used	0200	SPI	Specification Identifier	O	1		
14	0300	REF	Reference Identification	O	>1		
16	0400	LIN	Item Identification	O	>1		
Not Used	0500	DTM	Date/Time Reference	O	>1		
19	0600	QTY	Quantity	O	>1		
21	0700	YNQ	Yes/No Question	O	>1		n3
22	0800	AMT	Monetary Amount	O	>1		
Not Used	0900	PCT	Percent Amounts	O	>1		
23	1000	MEA	Measurements	O	>1		
LOOP ID - CLI							>1
Not Used	1100	CLI	Cost Line Item	O	1		
Not Used	1200	QTY	Quantity	O	>1		
Not Used	1300	AMT	Monetary Amount	O	>1		
Not Used	1400	RPA	Rate Amounts or Percents	O	>1		
LOOP ID - LM							>1
26	1500	LM	Code Source Information	O	1		n4
27	1600	LQ	Industry Code	M	>1		
Not Used	1700	REF	Reference Identification	O	>1		
Not Used	1800	DTM	Date/Time Reference	O	>1		
LOOP ID - NM1							>1
Not Used	1900	NM1	Individual or Organizational Name	O	1		n5
Not Used	2000	N2	Additional Name Information	O	2		
Not Used	2100	N3	Address Information	O	2		
Not Used	2200	N4	Geographic Location	O	1		
Not Used	2300	COM	Communication Contact Information	O	>1		
Not Used	2400	REF	Reference Identification	O	>1		
LOOP ID - MTX							>1
28	2500	MTX	Text	O	1		
Not Used	2600	DTM	Date/Time Reference	O	>1		
Not Used	2700	NM1	Individual or Organizational Name	O	>1		
Not Used	2800	REF	Reference Identification	O	>1		
29	2900	SE	Transaction Set Trailer	M	1		

**Transaction Set Notes**

1. The N1 segment identifies the organization originating and receiving the transaction set.

## 650A Assembly Component Maintenance Structure

2. The HL levels are group work candidate and work candidate. Valid HL parent-child relationships are 1) group work candidate-group work candidate and 2) group work candidate-work candidate.
3. The YNQ segment identifies conditions related to a maintenance or repair requirement.
4. The LM loop identifies management data that pertains to each use of the HL loop.
5. The NM1 segment identifies individuals and organizations involved in identifying, coordinating or performing maintenance.

**Segment:** **ST Transaction Set Header**

**Position:** 0100

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:**

**Semantic Notes:**

- 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
- 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.

**Comments:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	ST01	143 Transaction Set Identifier Code	M 1 ID 3/3
		Code uniquely identifying a Transaction Set 650 Maintenance Service Order	
M	ST02	329 Transaction Set Control Number	M 1 AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <i>A unique number assigned by the originator of the transaction set, or the originator's application program.</i>	
	ST03	1705 Implementation Convention Reference	O 1 AN 1/35
		Reference assigned to identify Implementation Convention <i>Use to indicate this transmission uses the 650A Federal IC and the 650A DLMS Supplement. Enter the DLMS Supplement: 004030F650A0AA00</i>	

**Segment:** **BGN** Beginning Segment  
**Position:** 0200  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a transaction set  
**Syntax Notes:** 1 If BGN05 is present, then BGN04 is required.  
**Semantic Notes:** 1 BGN02 is the transaction set reference number.  
 2 BGN03 is the transaction set date.  
 3 BGN04 is the transaction set time.  
 4 BGN05 is the transaction set time qualifier.  
 5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

**Comments:****Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BGN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 00 Original 77 Simulation Exercise	M 1 ID 2/2
M	BGN02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier <i>Use code 'Z' for this data element to satisfy mandatory X12 Requirements.</i>	M 1 AN 1/50
M	BGN03	373	<b>Date</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year <i>This date corresponds to the Universal Time Coordinate (UTC).</i>	M 1 DT 8/8
Not Used	BGN04	337	<b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X 1 TM 4/8
Not Used	BGN05	623	<b>Time Code</b> 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 1 ID 2/2

<b>Not Used</b>	<b>BGN06</b>	<b>127</b>	<b>Reference Identification</b>	<b>O</b>	<b>1</b>	<b>AN 1/50</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
	<b>BGN07</b>	<b>640</b>	<b>Transaction Type Code</b>	<b>O</b>	<b>1</b>	<b>ID 2/2</b>
			Code specifying the type of transaction			
			WO                Work Order			
	<b>BGN08</b>	<b>306</b>	<b>Action Code</b>	<b>O</b>	<b>1</b>	<b>ID 1/2</b>
			Code indicating type of action			
			2                Change (Update)			
			3                Delete			
			17               Create			
<b>Not Used</b>	<b>BGN09</b>	<b>786</b>	<b>Security Level Code</b>	<b>O</b>	<b>1</b>	<b>ID 2/2</b>
			Code indicating the level of confidentiality assigned by the sender to the information following			

**Segment:**     **REF** **Reference Identification**  
**Position:**    0300  
**Loop:**  
**Level:**       Heading  
**Usage:**       Optional  
**Max Use:**     >1  
**Purpose:**       To specify identifying information  
**Syntax Notes:**

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

**Semantic Notes:**

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

**Comments:**

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	REF01	128 <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification <i>Use any code.</i>	M 1 ID 2/3
	REF02	127 <b>Reference Identification</b> Refer to 004030 Data Element Dictionary for acceptable code values. Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50
Not Used	REF03	352 <b>Description</b> A free-form description to clarify the related data elements and their content	X 1 AN 1/80
Not Used	REF04	C040 <b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O 1
Not Used	C04001	128 <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127 <b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/50
Not Used	C04003	128 <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127 <b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50
Not Used	C04005	128 <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X ID 2/3
Not Used	C04006	127 <b>Reference Identification</b>	X AN 1/50

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



**Segment:** **DTM** Date/Time Reference  
**Position:** 0400  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

#### Data Element Summary

	Ref.	Data	Attributes	
			Element	Name
M	DTM01	374	<b>Date/Time Qualifier</b>	<b>M 1 ID 3/3</b>
			Code specifying type of date or time, or both date and time <i>Use any code.</i>	
			Refer to 004030 Data Element Dictionary for acceptable code values.	
	DTM02	373	<b>Date</b>	<b>X 1 DT 8/8</b>
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	
Not Used	DTM03	337	<b>Time</b>	<b>X 1 TM 4/8</b>
			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)	
Not Used	DTM04	623	<b>Time Code</b>	<b>O 1 ID 2/2</b>
			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	
Not Used	DTM05	1250	<b>Date Time Period Format Qualifier</b>	<b>X 1 ID 2/3</b>
			Code indicating the date format, time format, or date and time format	
Not Used	DTM06	1251	<b>Date Time Period</b>	<b>X 1 AN 1/3/5</b>
			Expression of a date, a time, or range of dates, times or dates and times	

<b>Segment:</b>	<b>N1</b> Name
<b>Position:</b>	0500
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To identify a party by type of organization, name, and code
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of N102 or N103 is required.</li> <li>2 If either N103 or N104 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>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.</li> <li>2 N105 and N106 further define the type of entity in N101.</li> </ol>
<b>Notes:</b>	<i>Must use the 1/N1/0500 loop to identify the organization to receive the transaction set and the organization originating the transaction set</i>

## Data Element Summary

	Ref.	Data	Data Element Summary	
			<u>Element</u>	<u>Name</u>
M	N101	98	Entity Identifier Code	M 1 ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			<i>Use any code.</i>	
			Refer to 004030 Data Element Dictionary for acceptable code values.	
Not Used	N102	93	Name	X 1 AN 1/60
			Free-form name	
	N103	66	Identification Code Qualifier	X 1 ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
		1	D-U-N-S Number, Dun & Bradstreet	
		9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
		10	Department of Defense Activity Address Code (DODAAC)	
		M4	Department of Defense Routing Identifier Code (RIC)	
	N104	67	Identification Code	X 1 AN 2/80
			Code identifying a party or other code	
Not Used	N105	706	Entity Relationship Code	O 1 ID 2/2
			Code describing entity relationship	
	N106	98	Entity Identifier Code	O 1 ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
		FR	Message From	

*Use with the appropriate 1/N101/050 code to indicate that the organization cited in N104 is originating the transaction set.*

TO

Message To

*Use with the appropriate 1/N101/050 code to indicate that the organization cited in N104 is the action organization receiving the transaction set.*

**Segment:** **HL Hierarchical Level**  
**Position:** 0100  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**

**Semantic Notes:**

- Comments:**
- 1 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.  
The HL segment defines a top-down/left-right ordered structure.
  - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
  - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
  - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** *For use in End Item Data, Assemblage Control Data, and Component Data loops.*

**Data Element Summary**

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	HL01	628	Hierarchical ID Number	M 1 AN 1/12
A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
<i>In the first 2/HL/0100 loop iteration, cite numeric 1. In each subsequent loop iteration, increase incrementally by 1.</i>				
	HL02	734	Hierarchical Parent ID Number	O 1 AN 1/12
Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
M	HL03	735	Hierarchical Level Code	M 1 ID 1/2
Code defining the characteristic of a level in a hierarchical structure				
		A	Assembly	
		EN	End Item	
		F	Component	

<b>HL04</b>	<b>736</b>	<b>Hierarchical Child Code</b>	<b>O 1 ID 1/1</b>
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Code indicating if there are hierarchical child data segments subordinate to the level being described

Refer to 004030 Data Element Dictionary for acceptable code values.

**Segment:** **REF** **Reference Identification**  
**Position:** 0300  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

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

**Semantic Notes:**

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

**Comments:**

#### Data Element Summary

	Ref.	Data	Attributes	
			Element	Name
M	REF01	128	Reference Identification Qualifier	M 1 ID 2/3
			Code qualifying the Reference Identification	
			<i>Use any code.</i>	
			Refer to 004030 Data Element Dictionary for acceptable code values.	
	REF02	127	Reference Identification	X 1 AN 1/50
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	REF03	352	Description	X 1 AN 1/80
			A free-form description to clarify the related data elements and their content	
Not Used	REF04	C040	Reference Identifier	O 1
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
Not Used	C04001	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04002	127	Reference Identification	M AN 1/50
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04003	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04004	127	Reference Identification	X AN 1/50
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04005	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04006	127	Reference Identification	X AN 1/50

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

**Segment:** **LIN** **Item Identification**

**Position:** 0400

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify basic item identification data

**Syntax Notes:**

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

**Semantic Notes:**

- 1 LIN01 is the line item identification

**Comments:**

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

**Notes:** *Use in 2/HL/010 transaction loops to identify the material.*

**Data Element Summary**

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u> <u>Name</u>		
Not Used	LIN01 350 <b>Assigned Identification</b>	O	1 AN 1/20
	Alphanumeric characters assigned for differentiation within a transaction set		
M	LIN02 235 <b>Product/Service ID Qualifier</b>	M	1 ID 2/2
	Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
	<i>Use any code.</i>		
	Refer to 004030 Data Element Dictionary for acceptable code values.		
M	LIN03 234 <b>Product/Service ID</b>	M	1 AN 1/48
	Identifying number for a product or service		
	LIN04 235 <b>Product/Service ID Qualifier</b>	X	1 ID 2/2
	Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
	OE	Original Equipment Number	



	<b>LIN05</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>1</b>	<b>AN 1/48</b>
			Identifying number for a product or service			
	<b>LIN06</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>1</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
			<i>Use any code.</i>			
			Refer to 004030 Data Element Dictionary for acceptable code values.			
	<b>LIN07</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>1</b>	<b>AN 1/48</b>
			Identifying number for a product or service			
<b>Not Used</b>	<b>LIN08</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>1</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
<b>Not Used</b>	<b>LIN09</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>1</b>	<b>AN 1/48</b>
			Identifying number for a product or service			
<b>Not Used</b>	<b>LIN10</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>1</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
<b>Not Used</b>	<b>LIN11</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>1</b>	<b>AN 1/48</b>
			Identifying number for a product or service			
<b>Not Used</b>	<b>LIN12</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>1</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
<b>Not Used</b>	<b>LIN13</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>1</b>	<b>AN 1/48</b>
			Identifying number for a product or service			
<b>Not Used</b>	<b>LIN14</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>1</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
<b>Not Used</b>	<b>LIN15</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>1</b>	<b>AN 1/48</b>
			Identifying number for a product or service			
<b>Not Used</b>	<b>LIN16</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>1</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
<b>Not Used</b>	<b>LIN17</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>1</b>	<b>AN 1/48</b>
			Identifying number for a product or service			
<b>Not Used</b>	<b>LIN18</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>1</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
<b>Not Used</b>	<b>LIN19</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>1</b>	<b>AN 1/48</b>
			Identifying number for a product or service			
<b>Not Used</b>	<b>LIN20</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>1</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			

Not Used	LIN21	234	<b>Product/Service ID</b> Identifying number for a product or service	X	1	AN 1/48
Not Used	LIN22	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	1	ID 2/2
Not Used	LIN23	234	<b>Product/Service ID</b> Identifying number for a product or service	X	1	AN 1/48
Not Used	LIN24	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	1	ID 2/2
Not Used	LIN25	234	<b>Product/Service ID</b> Identifying number for a product or service	X	1	AN 1/48
Not Used	LIN26	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	1	ID 2/2
Not Used	LIN27	234	<b>Product/Service ID</b> Identifying number for a product or service	X	1	AN 1/48
Not Used	LIN28	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	1	ID 2/2
Not Used	LIN29	234	<b>Product/Service ID</b> Identifying number for a product or service	X	1	AN 1/48
Not Used	LIN30	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	1	ID 2/2
Not Used	LIN31	234	<b>Product/Service ID</b> Identifying number for a product or service	X	1	AN 1/48

**Segment:** **QTY** Quantity  
**Position:** 0600  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify quantity information  
**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.  
2 Only one of QTY02 or QTY04 may be present.  
**Semantic Notes:** 1 QTY04 is used when the quantity is non-numeric.  
**Comments:**  
**Notes:** *Use in 2/HL/010 transaction loops to identify the quantity being requested.*

#### Data Element Summary

Ref.	Data				
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>		
M	QTY01	673	<b>Quantity Qualifier</b>	M	1 ID 2/2
			Code specifying the type of quantity		
			<i>Use any code.</i>		
			Refer to 004030 Data Element Dictionary for acceptable code values.		
	QTY02	380	<b>Quantity</b>	X	1 R 1/15
			Numeric value of quantity		
			<i>Express as whole number with no decimals.</i>		
	QTY03	C001	<b>Composite Unit of Measure</b>	O	1
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
M	C00101	355	<b>Unit or Basis for Measurement Code</b>	M	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			<i>Use to identify the unit of issue for material requested.</i>		
			Refer to 004030 Data Element Dictionary for acceptable code values.		
Not Used	C00102	1018	<b>Exponent</b>	O	R 1/15
			Power to which a unit is raised		
Not Used	C00103	649	<b>Multiplier</b>	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
	C00104	355	<b>Unit or Basis for Measurement Code</b>	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Refer to 004030 Data Element Dictionary for acceptable code values.		
Not Used	C00105	1018	<b>Exponent</b>	O	R 1/15
			Power to which a unit is raised		
	C00106	649	<b>Multiplier</b>	O	R 1/10

			Value to be used as a multiplier to obtain a new value		
Not Used	C00107	355	<b>Unit or Basis for Measurement Code</b>	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00108	1018	<b>Exponent</b>	O	R 1/15
			Power to which a unit is raised		
Not Used	C00109	649	<b>Multiplier</b>	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00110	355	<b>Unit or Basis for Measurement Code</b>	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00111	1018	<b>Exponent</b>	O	R 1/15
			Power to which a unit is raised		
Not Used	C00112	649	<b>Multiplier</b>	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00113	355	<b>Unit or Basis for Measurement Code</b>	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00114	1018	<b>Exponent</b>	O	R 1/15
			Power to which a unit is raised		
Not Used	C00115	649	<b>Multiplier</b>	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	QTY04	61	<b>Free-Form Message</b>	X	1 AN 1/30
			Free-form information		

**Segment:** **YNQ** Yes/No Question  
**Position:** 0700  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition

**Syntax Notes:**

- 1 Only one of YNQ01 YNQ09 or YNQ10 may be present.
- 2 If either YNQ03 or YNQ04 is present, then the other is required.
- 3 If YNQ09 is present, then YNQ08 is required.

**Semantic Notes:**

- 1 YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied.
- 2 YNQ10 contains a free-form question when codified questions are not available.

**Comments:**

#### Data Element Summary

Ref.	Data	Attributes		
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
YNQ01	1321	<b>Condition Indicator</b>	X	1 ID 2/2
		Code indicating a condition		
		ZZ Mutually Defined		
M	YNQ02	<b>Yes/No Condition or Response Code</b>	M	1 ID 1/1
		Code indicating a Yes or No condition or response		
		Refer to 004030 Data Element Dictionary for acceptable code values.		
Not Used	YNQ03	<b>Date Time Period Format Qualifier</b>	X	1 ID 2/3
		Code indicating the date format, time format, or date and time format		
Not Used	YNQ04	<b>Date Time Period</b>	X	1 AN 1/35
		Expression of a date, a time, or range of dates, times or dates and times		
Not Used	YNQ05	<b>Free-Form Message Text</b>	O	1 AN 1/264
		Free-form message text		
Not Used	YNQ06	<b>Free-Form Message Text</b>	O	1 AN 1/264
		Free-form message text		
Not Used	YNQ07	<b>Free-Form Message Text</b>	O	1 AN 1/264
		Free-form message text		
Not Used	YNQ08	<b>Code List Qualifier Code</b>	X	1 ID 1/3
		Code identifying a specific industry code list		
Not Used	YNQ09	<b>Industry Code</b>	X	1 AN 1/30
		Code indicating a code from a specific industry code list		
Not Used	YNQ10	<b>Free-Form Message Text</b>	X	1 AN 1/264
		Free-form message text		

**Segment:** **AMT** Monetary Amount  
**Position:** 0800  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To indicate the total monetary amount  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	AMT01	522	<b>Amount Qualifier Code</b> Code to qualify amount <i>Use any code.</i> Refer to 004030 Data Element Dictionary for acceptable code values.	<b>M 1 ID 1/3</b>
M	AMT02	782	<b>Monetary Amount</b> Monetary amount	<b>M 1 R 1/18</b>
	AMT03	478	<b>Credit/Debit Flag Code</b> Code indicating whether amount is a credit or debit Refer to 004030 Data Element Dictionary for acceptable code values.	<b>O 1 ID 1/1</b>

**Segment:** **MEA** Measurements  
**Position:** 1000  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

**Syntax Notes:**

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

**Semantic Notes:** 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

**Comments:** 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

**Notes:** *Use multiple repetitions to identify any measurement/dimensions.*

#### Data Element Summary

Ref.	Data				Attributes
Des.	Element	Name			
MEA01	737	Measurement Reference ID Code			O 1 ID 2/2
		Code identifying the broad category to which a measurement applies			
		<i>Use any code.</i>			
		Refer to 004030 Data Element Dictionary for acceptable code values.			
MEA02	738	Measurement Qualifier			O 1 ID 1/3
		Code identifying a specific product or process characteristic to which a measurement applies			
		<i>1. Use to identify the specific dimension/measurement quantified in MEA03.</i>			
		<i>2. Use any code.</i>			
		Refer to 004030 Data Element Dictionary for acceptable code values.			
MEA03	739	Measurement Value			X 1 R 1/20
		The value of the measurement			
Not Used	MEA04	C001 Composite Unit of Measure			X 1
		To identify a composite unit of measure (See Figures Appendix for examples of use)			
Not Used	C00101	355 Unit or Basis for Measurement Code			M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
Not Used	C00102	1018 Exponent			O R 1/15
		Power to which a unit is raised			

Not Used	C00103	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O	R 1/10
Not Used	C00104	355	<b>Unit or Basis for Measurement Code</b> 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	C00105	1018	<b>Exponent</b> Power to which a unit is raised	O	R 1/15
Not Used	C00106	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O	R 1/10
Not Used	C00107	355	<b>Unit or Basis for Measurement Code</b> 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	C00108	1018	<b>Exponent</b> Power to which a unit is raised	O	R 1/15
Not Used	C00109	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O	R 1/10
Not Used	C00110	355	<b>Unit or Basis for Measurement Code</b> 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	C00111	1018	<b>Exponent</b> Power to which a unit is raised	O	R 1/15
Not Used	C00112	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O	R 1/10
Not Used	C00113	355	<b>Unit or Basis for Measurement Code</b> 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	C00114	1018	<b>Exponent</b> Power to which a unit is raised	O	R 1/15
Not Used	C00115	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O	R 1/10
Not Used	MEA05	740	<b>Range Minimum</b> The value specifying the minimum of the measurement range	X	1 R 1/20
Not Used	MEA06	741	<b>Range Maximum</b> The value specifying the maximum of the measurement range	X	1 R 1/20
Not Used	MEA07	935	<b>Measurement Significance Code</b> Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
Not Used	MEA08	936	<b>Measurement Attribute Code</b> Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
Not Used	MEA09	752	<b>Surface/Layer/Position Code</b> Code indicating the product surface, layer or position that is being	O	1 ID 2/2



			described		
<b>Not Used</b>	<b>MEA10</b>	<b>1373</b>	<b>Measurement Method or Device</b>	<b>O</b>	<b>1 ID 2/4</b>
			The method or device used to record the measurement		

**Segment:** **LM** Code Source Information  
**Position:** 1500  
**Loop:** LM Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To transmit standard code list identification information

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1 LM02 identifies the applicable industry code list source information.

**Notes:** *Use this 2/LM/150 loop to identify coded information maintained in department or agency documentation.*

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>		
M	LM01	559	Agency Qualifier Code Code identifying the agency assigning the code values DF Department of Defense (DoD)	M	1	ID 2/2
Not Used	LM02	822	Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier	O	1	AN 1/15

**Segment:** **LQ** Industry Code  
**Position:** 1600  
**Loop:** LM Optional  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** >1  
**Purpose:** Code to transmit standard industry codes  
**Syntax Notes:** 1 If LQ01 is present, then LQ02 is required.  
**Semantic Notes:**  
**Comments:**

**Notes:** *Use to identify codes, as appropriate, consistent with management information requirements.*

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<b>LQ01</b>	<b>1270</b>	<b>Code List Qualifier Code</b>	<b>O 1 ID 1/3</b>
		Code identifying a specific industry code list	
		<i>Use any code.</i>	
		Refer to 004030 Data Element Dictionary for acceptable code values.	
<b>LQ02</b>	<b>1271</b>	<b>Industry Code</b>	<b>X 1 AN 1/30</b>
		Code indicating a code from a specific industry code list	

**Segment:** **MTX** Text  
**Position:** 2500  
**Loop:** MTX Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify textual data  
**Syntax Notes:**

- 1 If MTX01 is present, then MTX02 is required.
- 2 If MTX03 is present, then MTX02 is required.
- 3 If MTX05 is present, then MTX04 is required.

**Semantic Notes:**

- 1 MTX05 is the number of lines to advance before printing.

**Comments:**

- 1 If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.

#### Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
MTX01	363	Note Reference Code		O 1 ID 3/3
		Code identifying the functional area or purpose for which the note applies		
		IID Inventory (Stock) Description		
MTX02	1551	Message Text		X 1 AN 1/4096
		To transmit large volumes of message text		
Not Used	MTX03	1551	Message Text	O 1 AN 1/4096
		To transmit large volumes of message text		
Not Used	MTX04	934	Printer Carriage Control Code	X 1 ID 2/2
		A field to be used for the control of the line feed of the receiving printer		
Not Used	MTX05	1470	Number	O 1 N0 1/9
		A generic number		
Not Used	MTX06	819	Language Code	O 1 ID 2/3
		Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)		

**Segment:** **SE** Transaction Set Trailer  
**Position:** 2900  
**Loop:**  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:**

**Semantic Notes:**

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

**Data Element Summary**

	Ref.	Data		Attributes
		<u>Des.</u>	<u>Element Name</u>	
M	SE01	96	<b>Number of Included Segments</b>	M 1 N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	<b>Transaction Set Control Number</b>	M 1 AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			<i>Cite the same number as the one cited in ST02.</i>	