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# **997 Functional Acknowledgement**

X12 Version 4010

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# 997

## Functional Acknowledgment

Functional Group=FA

**Not Defined:**

<u>Page</u>	<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>
2		ISA	Interchange Control Header	M	1			Must use
4		GS	Functional Group Header	M	1			Must use

**Heading:**

<u>Page</u>	<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>
5	010	ST	Transaction Set Header	M	1			Must use
6	020	AK1	Functional Group Response Header	M	1		N1/020	Must use

7	<u>LOOP ID - AK2</u>					<u>999999</u>	<u>N1/030L</u>	
8	030	AK2	Transaction Set Response Header	O	1		N1/030	Used
9	<u>LOOP ID - AK3</u>					<u>999999</u>	<u>C1/040L</u>	
10	040	AK3	Data Segment Note	O	1		C1/040	Used
11	050	AK4	Data Element Note	O	99			Used
12	060	AK5	Transaction Set Response Trailer	M	1			Must use
13	070	AK9	Functional Group Response Trailer	M	1			Must use
14	080	SE	Transaction Set Trailer	M	1			Must use

**Not Defined:**

<u>Page</u>	<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>
15		GE	Functional Group Trailer	M	1			Must use
16		IEA	Interchange Control Trailer	M	1			Must use

# ISA Interchange Control Header

<b>Pos:</b>	<b>Max: 1</b>
<b>Not Defined - Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 16</b>

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	<b>Authorization Information Qualifier</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		00      No Authorization Information Present (No Meaningful Information in I02)				
ISA02	I02	<b>Authorization Information</b>	M	AN	10/10	Must use
		<i>10 Spaces</i>				
ISA03	I03	<b>Security Information Qualifier</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		00      No Security Information Present (No Meaningful Information in I04)				
ISA04	I04	<b>Security Information</b>	M	AN	10/10	Must use
		<i>10 Spaces</i>				
ISA05	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2	Must use
		<i>For Documents sent by Advance Auto Parts this will contain:</i>				
		<u>Value</u> <u>Meaning</u>				
		01      DUNS(Dun and Bradstreet Number)				
ISA06	I06	<b>Interchange Sender ID</b>	M	AN	15/15	Must use
		<i>For Documents sent by Advance Auto Parts Sender ID will contain:</i>				
		<u>Value</u> <u>Meaning</u>				
		007941529T      TEST ID				
		007941529      PRODUCTION ID				
ISA07	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2	Must use
		<i>For Documents received by Advance Auto Parts this should contain:</i>				
		<u>Value</u> <u>Meaning</u>				
		01      DUNS(Dun and Bradstreet Number)				
ISA08	I07	<b>Interchange Receiver ID</b>	M	AN	15/15	Must use
		<i>For Documents received by Advance Auto Parts Receiver ID should contain:</i>				
		<u>Value</u> <u>Meaning</u>				
		007941529T      TEST ID				
		007941529      PRODUCTION ID				
ISA09	I08	<b>Interchange Date</b>	M	DT	6/6	Must use
ISA10	I09	<b>Interchange Time</b>	M	TM	4/4	Must use

ISA11	I10	<b>Interchange Control Standards Identifier</b>	M	ID	1/1	Must use
ISA12	I11	<b>Interchange Control Version Number</b>	M	ID	5/5	Must use

<u>Code</u>	<u>Name</u>
00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997

ISA13	I12	<b>Interchange Control Number</b>	M	N0	9/9	Must use
ISA14	I13	<b>Acknowledgment Requested</b>	M	ID	1/1	Must use
ISA15	I14	<b>Usage Indicator</b>	M	ID	1/1	Must use

<u>Code</u>	<u>Name</u>
P	Production Data
T	Test Data

ISA16	I15	<b>Component Element Separator</b>	M		1/1	Must use
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<i>Type</i>	<u>HEX</u>	<u>ASCII</u>
<i>Data Element Separator</i>	2A	*
<i>Segment Terminator</i>	7E	~
<i>Component Element Separator</i>	3C	<

# GS Functional Group Header

<b>Pos:</b>	<b>Max: 1</b>
<b>Not Defined - Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 8</b>

**User Option (Usage):** Must use

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

**Semantics:**

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	<b>Functional Identifier Code</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		FA      Functional Acknowledgment (997)				
GS02	142	<b>Application Sender's Code</b>	M	AN	2/15	Must use
		<i>For Documents sent by Advance Auto Parts Sender ID will contain:</i>				
		<u>Value</u> <u>Meaning</u>				
		007941529T      TEST ID				
		007941529      PRODUCTION ID				
GS03	124	<b>Application Receiver's Code</b>	M	AN	2/15	Must use
		<i>For Documents received by Advance Auto Parts Receiver ID should contain:</i>				
		<u>Value</u> <u>Meaning</u>				
		007941529T      TEST ID				
		007941529      PRODUCTION ID				
GS04	373	<b>Date</b>	M	DT	8/8	Must use
GS05	337	<b>Time</b>	M	TM	4/8	Must use
GS06	28	<b>Group Control Number</b>	M	N0	1/9	Must use
GS07	455	<b>Responsible Agency Code</b>	M	ID	1/2	Must use
GS08	480	<b>Version / Release / Industry Identifier Code</b>	M	AN	1/12	Must use
		<u>Code</u> <u>Name</u>				
		004010      Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997				

# ST Transaction Set Header

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

**User Option (Usage):** Must use

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

**Semantics:**

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice 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>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use



# AK1 Functional Group Response Header

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

**Purpose:** AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.

**Semantics:**

1. AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
2. AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.

**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>
AK101	479	<b>Functional Identifier Code</b>	M	ID	2/2	Must use

This value corresponds to the value passed in the GS01 of the document being acknowledged. Example PO (Purchase Order), IN (Invoice) , SH (Advanced Ship Notice).

AK102	28	<b>Group Control Number</b>	M	NO	1/9	Must use
-------	----	-----------------------------	---	----	-----	----------

The control number of the document being acknowledged

# Loop Transaction Set Response Header

Pos: 030	Repeat: 999999
Optional	
Loop: AK2	Elements: N/A

**User Option (Usage):** Used

**Purpose:** To start acknowledgment of a single transaction set received in a functional group

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
030	AK2	Transaction Set Response Header	O	1		Used
040		Loop AK3	O		999999	Used
060	AK5	Transaction Set Response Trailer	M	1		Must use

# AK2 Transaction Set Response Header

Pos: 030	Max: 1
Heading - Optional	
Loop: AK2	Elements: 2

**User Option (Usage):** Used

**Purpose:** To start acknowledgment of a single transaction set within a functional group.

**Semantics:**

1. AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.
2. AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

**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>
AK201	143	<b>Transaction Set Identifier Code</b> Value from ST01 of the original document (850, 810, 856 etc.)	M	ID	3/3	Must use
AK202	329	<b>Transaction Set Control Number</b> Value from ST02 of original document.	M	AN	4/9	Must use

# Loop Data Segment Note

Pos: 040	Repeat: 999999
Optional	
Loop: AK3	Elements: N/A

**User Option (Usage):** Used

**Purpose:** To report errors in a data segment and identify the location of the data segment

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
040	AK3	Data Segment Note	O	1		Used
050	AK4	Data Element Note	O	99		Used

# AK3 Data Segment Note

<b>Pos: 040</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: AK3</b>	<b>Elements: 4</b>

**User Option (Usage):** Used

**Purpose:** To report errors in a data segment and identify the location of the data segment

## 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>
AK301	721	Segment ID Code	M	ID	2/3	Must use
AK302	719	Segment Position in Transaction Set	M	N0	1/6	Must use
AK303	447	Loop Identifier Code	O	AN	1/6	Used
AK304	720	Segment Syntax Error Code	O	ID	1/3	Used

# AK4 Data Element Note

Pos: 050	Max: 99
Heading - Optional	
Loop: AK3	Elements: 4

**User Option (Usage):** Used

**Purpose:** To report errors in a data element or composite data structure and identify the location of the data element

## Semantics:

1. In no case shall a value be used for AK404 that would generate a syntax error, e.g., an invalid character.

## 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>
AK401	C030	Position in Segment	M	Comp		Must use
AK401-01	722	Element Position in Segment	M	N0	1/2	Must use
AK401-02	1528	Component Data Element Position in Composite	O	N0	1/2	Used
AK402	725	Data Element Reference Number	O	N0	1/4	Used
AK403	723	Data Element Syntax Error Code	M	ID	1/3	Must use
AK404	724	Copy of Bad Data Element	O	AN	1/99	Used

# AK5 Transaction Set Response Trailer

Pos: 060	Max: 1
Heading - Mandatory	
Loop: AK2	Elements: 6

**User Option (Usage):** Must use

**Purpose:** To acknowledge acceptance or rejection and report errors in a 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>
AK501	717	<b>Transaction Set Acknowledgment Code</b>	M	ID	1/1	Must use
		<u>Code</u> <u>Meaning</u>				
		A      Accepted				
		E      Accepted with errors				
		R      Rejected				
AK502	718	<b>Transaction Set Syntax Error Code</b>	O	ID	1/3	Used
		From ANSI X12 error code table				
		Examples:				
		<u>Code</u> <u>Description</u>				
		5      One or more segments in error				
		7      Missing or Invalid Transaction set Control Number				
AK503	718	<b>Transaction Set Syntax Error Code</b>	O	ID	1/3	Used
AK504	718	<b>Transaction Set Syntax Error Code</b>	O	ID	1/3	Used
AK505	718	<b>Transaction Set Syntax Error Code</b>	O	ID	1/3	Used
AK506	718	<b>Transaction Set Syntax Error Code</b>	O	ID	1/3	Used

# AK9 Functional Group Response Trailer

Pos: 070	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 9

**User Option (Usage):** Must use

**Purpose:** To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group

## 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>								
AK901	715	<b>Functional Group Acknowledge Code</b>	M	ID	1/1	Must use								
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Meaning</u></td> </tr> <tr> <td>A</td> <td>Accepted</td> </tr> <tr> <td>E</td> <td>Accepted with errors</td> </tr> <tr> <td>R</td> <td>Rejected</td> </tr> </table>	<u>Code</u>	<u>Meaning</u>	A	Accepted	E	Accepted with errors	R	Rejected				
<u>Code</u>	<u>Meaning</u>													
A	Accepted													
E	Accepted with errors													
R	Rejected													
AK902	97	<b>Number of Transaction Sets Included</b>	M	N0	1/6	Must use								
		Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element												
AK903	123	<b>Number of Received Transaction Sets</b>	M	N0	1/6	Must use								
AK904	2	<b>Number of Accepted Transaction Sets</b>	M	N0	1/6	Must use								
AK905	716	<b>Functional Group Syntax Error Code</b>	O	ID	1/3	Used								
		ANSI X12 Code indicating error found based on the syntax editing of the functional group header and/or trailer												
AK906	716	<b>Functional Group Syntax Error Code</b>	O	ID	1/3	Used								
		ANSI X12 Code indicating error found based on the syntax editing of the functional group header and/or trailer												
AK907	716	<b>Functional Group Syntax Error Code</b>	O	ID	1/3	Used								
		ANSI X12 Code indicating error found based on the syntax editing of the functional group header and/or trailer												
AK908	716	<b>Functional Group Syntax Error Code</b>	O	ID	1/3	Used								
		ANSI X12 Code indicating error found based on the syntax editing of the functional group header and/or trailer												
AK909	716	<b>Functional Group Syntax Error Code</b>	O	ID	1/3	Used								
		ANSI X12 Code indicating error found based on the syntax editing of the functional group header and/or trailer												



<b>SE</b>	<b>Transaction Set Trailer</b>	Pos: 080	Max: 1
		Heading - Mandatory	
		Loop: N/A	Elements: 2

**User Option (Usage):** Must use

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

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use

*The control number in this data element must be identical to the control number provided in the associated ST Control Header (ST02)*

# GE Functional Group Trailer

<b>Pos:</b>	<b>Max: 1</b>
<b>Not Defined - Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 2</b>

**User Option (Usage):** Must use

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

**Semantics:**

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

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	Number of Transaction Sets Included	M	N0	1/6	Must use
GE02	28	Group Control Number	M	N0	1/9	Must use

*The control number in this data element must be identical to the control number provided in the associated GS Control Header (GS02)*

# IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5	Must use
IEA02	I12	Interchange Control Number	M	N0	9/9	Must use

*The control number in this data element must be identical to the control number provided in the associated Interchange Control Header (ISA02).*