



Implementation Guide for EDI Conventions

Functional Acknowledgment (997)

AIAG Version 2040
ANSI ASC X12

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Version	Date	Description
1.00	March 17, 2008	Document issued.
1.01	February 26, 2010	Removed “An Asahi Tech Company” from the Metaldyne title. Removed some locations in the “Metaldyne ISA and GS ID Information” chart.
1.02	July 7, 2010	Updated the “Metaldyne ISA and GS ID Information” chart.

Segment: ISA – Interchange Control Header.

Level: Header

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

Examples: ISA*00* *00* *01*201547189*01*118733062
*060217*1243*U*00204*000000467*0*P*|?

Elem ID	Elem #	Element Name	Attributes	MD Use	Comments
ISA01	I01	Authorization Information Qualifier	M ID 2/2	Yes	00 = No authorization information included
ISA02	I02	Authorization Information	M AN 10/10	Yes	If ISA01 = 00 use ten spaces
ISA03	I03	Security Information Qualifier	M ID 2/2	Yes	00 = No authorization present
ISA04	I04	Security Information	M ID 10/10	Yes	If ISA04 = 00 use ten spaces.
ISA05	I05	Interchange ID Qualifier	M ID 2/2	Yes	01 = Duns Number
ISA06	I06	Interchange Sender ID	M AN 15/15	Yes	
ISA07	I05	Interchange ID Qualifier	M ID 2/2	Yes	01 = Duns Number 12 = Phone Number ZZ = Mutually Defined
ISA08	I07	Interchange Receiver ID	M AN 15/15	Yes	See next page for Metaldyne IDs
ISA09	I08	Interchange Date	M DT /6/6	Yes	Creation Date (YYMMDD)
ISA10	I09	Interchange Time	M TM 4/4	Yes	Creation Time (HHMM)
ISA11	I10	Interchange Control	M ID 1/1	Yes	U = USA

Standards Identifier					
ISA12	I11	Interchange Control Version Number	M ID 5/5	Yes	Use 00204
ISA13	I12	Interchange Control Number	M N0 9/9	Yes	Must be the same as IEA02. A sequential number starting with 1 and incremented by 1 for each ISA between sender and receiver
ISA14	I13	Acknowledgment Requested	M ID 1/1	Yes	0 = No Acknowledgment required
ISA15	I14	Usage Indicator	M ID 1/1	Yes	P = Production data
ISA16	I15	Component Element Separator	M AN 1/1	Yes	

Segment: GS Functional Group Header

Level: Header

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

Examples: GS*FA*201547189*006068506*060217*1243*467*X*002040

Elem ID	Elem #	Element Name	Attributes	MD Use	Comments
GS01	479	Functional Identifier Code	M ID 2/2	Yes	FA=Functional Acknowledgement
GS02	142	Application Sender's Code	M AN 2/15	Yes	
GS03	124	Application Receiver's Code	M AN 2/15	Yes	See next page for Metaldyne IDs
GS04	029	Date	M DT 6/6	Yes	Date created. (YYMMDD)
GS05	030	Time	M TM 4/4	Yes	Time created (HHMM)
GS06	028	Group Control Number	M N0 1/9	Yes	This is a sequential number starting with 1 and incremented by 1 for each subsequent GS segment.
GS07	455	Responsible Agency Code	M ID 1/2	Yes	"X" = ASC X12
GS08	480	Version / Release / Industry Identifier Code	M AN 1/12	Yes	Use 002040

Metaldyne ISA and GS ID Information

Metaldyne Location	ISA ID	GS ID	EDI VAN
Driveline & BSM Products			
Metaldyne Bluffton 131 West Harvest Road Bluffton, Indiana 46714	01:118733062	092041409	Covisint
Metaldyne Fremont 307 S. Tillotson Fremont, IN 46737	01:118733062	005174933	Covisint
Metaldyne Twinsburg 8001 Bavaria Road Twinsburg, OH 44087	01:118733062	785126632	Covisint
Sintered Products			
Metaldyne North Vernon 3100 North Highway #3 North Vernon, IN, 47265	01:840551634	840551634	Covisint
Metaldyne Ridgway 1149 Rocky Road Ridgway, PA 15853	01:063654768	063654768	Covisint
Metaldyne St. Marys 197 West Creek Road St. Marys PA 15857	01:079365222	079365222	Covisint
Metaldyne Warren 30500 Ryan Rd Warren, Mi 48092	01:884079021	884079021	Covisint
Metaldyne - Mexico Blvd. Industrias de la Transformación 3120 Ramos Arizpe, Coahuila, México 25900	ZZ:METALDYNERA	812519932	Covisint
Vibration Control Products			
Metaldyne Litchfield 917 Anderson Road Litchfield, MI 49252	01:118733062	045245149	Covisint

Introduction.

Metaldyne requires a 997 Functional Acknowledgement be returned for each 830 Planning Schedule sent to your company. Metaldyne expects a 997 to be sent immediately following and in response to each 830 Planning Schedule received. Sending the 997 acknowledges only that the 830 Planning Schedule was brought into your system and translated from its X12 format. It does not imply acceptance of the data content of the 830 Planning Schedule. It informs Metaldyne that the 830 Planning Schedule was syntactically accepted or rejected by your system according to X12 standards.

For those suppliers that use Covisint's Supplier Connection website to receive 830 Planning Schedules, Covisint will automatically send Metaldyne a 997 when you open or download the document.

Segment: ST - Transaction Set Header.

Level: Header

Loop: -

Usage: Mandatory

Max Use: 1

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

Notes: The transaction set control number (ST02) in this header will match the transaction set control number (SE02) in the transaction set trailer (SE).

Examples: ST*997*0001

Elem ID	Elem #	Element Name	Attributes	Use	Comments
ST01	143	Transaction Set Identifier Code	M ID 3/3	Yes	Use 997 = Functional Acknowledgment.
ST02	329	Transaction Set Control Number	M AN 4/9	Yes	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 for SE02 segment.

Segment: **AK1** - Functional Group Response Header.

Level: Header

Loop: -

Usage: Mandatory

Max Use: **1**

Purpose: To start the acknowledgment.

Notes: The AK1 is used to indicate the type and Control Number of the document group being acknowledged. There shall be one AK1 segment for the functional group that is being acknowledged.

Examples: Document Sent:
 GS***PS***118733062*201547189*060217*1243***467***X*002040

 AK1*PS*467

Elem ID	Elem #	Element Name	Attributes	Use	Comments
AK101	479	Functional Identifier Code	M ID 2/2	Yes	The value from the GS01 of the functional group being acknowledged. "PS" = 830 Planning Schedule
AK102	28	Group Control Number	M N0 1/9	Yes	The value from the GS06 of the functional group being acknowledged.

Segment: AK2 - Transaction Set Response Header

Level: Header

Loop: AK2

Usage: Optional

Max Use: 1

Purpose: To start acknowledgment of a single transaction set.

Notes: The AK2 is the start of a loop to indicate the type and Control Number of each document being acknowledged. There shall be one AK2 segment for each document that is being acknowledged.

Examples: Document Sent:
 ST*830*790001

 AK2*830*790001

Elem ID	Elem #	Element Name	Attributes	Use	Comments
AK201	143	Transaction Set Identifier Code	M ID 3/3	Yes	The value from the ST01 of the transaction set being acknowledged.
AK202	329	Transaction Set Control Number	M AN 4/9	Yes	The value from the ST02 of the transaction set being acknowledged.

Segment: AK3 - Data Segment Note

Level: Header

Loop: AK2

Usage: Optional

Max Use: 1

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

Notes: Provides the location and error code of the data segment in the transaction set being responded to which did not pass syntactical checks during the translation process.

Examples: AK3*REF*25**2

Elem ID	Elem #	Element Name	Attributes	Use	Comments
AK301	721	Segment ID Code	M ID 2/3	Yes	Segment ID Code of data segment in error.
AK302	719	Segment Position in Transaction Set	M N0 1/6	Yes	The numerical position of data segment from start of transaction set.
AK303	447	Loop Identifier Code	O AN 1/4	Yes	Loop within transaction set
AK304	720	Segment Syntax Error Code	O ID 1/3	Yes	X12 Code indicating error found while processing transaction set

Segment: AK4 - Data Element Note

Level: Header

Loop: AK2/AK3

Usage: Optional

Max Use: 99

Purpose: To report errors in a data element and to identify the location of the data element.

Notes:

Examples: AK4*1*374*1
AK4*2*373*8*0A0193

Elem ID	Elem #	Element Name	Attributes	Use	Comments
AK401	722	Element Position in Segment	M N0 1/2	Yes	Relative position of data element in error within the data segment.
AK402	725	Data Element Reference Number	O N0 1/4	Yes	Reference number used to locate the erroneous data element in the ANSI X12 Data Element Dictionary.
AK403	23	Data Element Syntax Error Code	M ID 1/3	Yes	Code indicating the type of error found after syntax edits of a data element.
AK404	724	Copy of Bad Data Element	O AN 1/99	Yes	Copy of the data element in error.

Segment: AK5 - Transaction Set Response Trailer

Level: Header

Loop: AK2

Usage: Mandatory

Max Use: 1

Purpose: To acknowledge acceptance or rejection and to report errors in the transaction set.

Notes: This segment is used to end the acknowledgment of a transaction set within the received functional group. The AK5 segment is mandatory in the AK2 - AK5 loop; however, the loop is optional. There is one AK5 segment per AK2 segment.

Examples: AK5*R*5
AK5*A

Elem ID	Elem #	Element Name	Attributes	Use	Comments
AK501	717	Transaction Set Acknowledgment Code	M ID 1/1	Yes	Code indicating accept or reject condition based on the syntax editing of the transaction set. "A" = Accepted "R" = Rejected
AK502	718	Transaction Set Syntax Error Code	O ID 1/3	No	

Segment: AK9 - Functional Group Response Trailer

Level: Header

Loop: -

Usage: Mandatory

Max Use: 1

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.

Notes: This segment is used to complete the response for the functional group acknowledgment. The AK9 segment is mandatory. In addition to completing the response, it provides a summary of the counts of the transaction sets.

Examples: AK9*A*3*3*3
AK9*R*3*3*0

Elem ID	Elem #	Element Name	Attributes	Use	Comments
AK901	715	Functional Group Acknowledge Code	M ID 1/1	Yes	Code indicating accept or reject condition based on the syntax editing of the transaction set. “A” = Accepted “R” = Rejected
AK902	97	Number of Transaction Sets Included	M N0 1/6	Yes	Total number of transaction sets (value of GE01 in the received functional group).
AK903	123	Number of Received Transaction Sets	M N0 1/6	Yes	Total count of transaction sets received.
AK904	2	Number of Accepted Transaction Sets	M N0 1/6	Yes	Number of transaction sets accepted within a functional group.

Segment: SE - Transaction Set Trailer

Level: Summary

Loop:

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).

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

Examples: SE*52*0001

Elem ID	Elem #	Element Name	Attributes	Use	Comments
SE01	96	Number of Included Segments	M NO 1/10	Yes	
SE02	329	Transaction Set Control Number	M AN 4/9	Yes	Same as ST02.

Metaldyne Functional Acknowledgment Examples.

The following is an example of a Functional Acknowledgment accepting the receipt of an 830 Planning Schedule:

Segment	Explanation
ST*997*4560001	997 = Functional Acknowledgement transaction. 4560001 = Transaction Set Control Number.
AK1*PS*241	PS = 830 Planning Schedule 241 = Control Number from the GS06 segment of the 830 Planning Schedule being acknowledged.
AK9*A*1*1*1	A = Accepted by the receiver without errors. Number of included transactions sets sent (the value from the GE01 in the received 830 Planning Schedule) was 1, the number of received transactions sets was 1, and the number of accepted transactions sets was 1.
SE*000004*4560001	There are 4 segments in this 997 and the Control Number is 4560001.

The following is an example of a Functional Acknowledgment rejecting the receipt of an 830 Planning Schedule:

Segment	Explanation
ST*997*4560001	997 = Functional Acknowledgement transaction. 4560001 = Transaction Set Control Number.
AK1*PS*241	PS = 830 Planning Schedule 241 = Control Number from the GS06 segment of the 830 Planning Schedule being acknowledged.
AK9*R*1*1*0	A = Accepted by the receiver without errors. Number of included transactions sets sent (the value from the GE01 in the received 830 Planning Schedule) was 1, the number of received transactions sets was 1, and the number of accepted transactions sets was 0.
SE*000004*4560001	There are 4 segments in this 997 and the Control Number is 4560001.