

**Implementation Guidelines For ANSI X12 Transaction Set 861
Receiving Advice
(Consignment)**

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Algoma Steel Inc.
Information Technology

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SECTION 2. PREFACE

Algoma Steel Inc. is committed to supporting and using the Automotive Industry Action Group/American National Standards Institute (AIAG/ANSI) X12 national standards. However, the standards are broad in scope and flexible in methods of implementing. These are the Algoma specific requirements for the receiving advice.

Any questions or concerns regarding the Algoma receiving advice or electronic data communication with Algoma may be directed to:

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SECTION 3. SUMMARY

This document is intended to provide the details on how to construct an electronic Receiving Advice (AG) 861 transaction set to satisfy Algoma's requirements.

Algoma Steel Inc. uses the GXS network for electronic data interchange.

Algoma is prepared to send partners 856 (advance shipment notification) transactions to assist in data processing.

The receiving advice (861) is a prerequisite of the 870 (Order Status) transaction.

Algoma Steel Inc. will respond to all incoming 861 transactions with a 997 (functional acknowledgment). All partners must advise Algoma, regarding unacknowledged 861 transactions, in a timely manner.

An Application Advice (824 transaction) will be sent for each batch (piece) received in a 861 transaction. The 824 will be used to identify whether an 861 was accepted or rejected. The sender will be required to correct any rejected 861 transactions and resend to Algoma Steel in a timely fashion.

Algoma Steel Inc. uses the GXS network for electronic data interchange. Algoma's qualifier is 01 and production ID is 201495124.

SECTION 4. INTERCHANGE ENVELOPE

4.1 ISA - Interchange Control Header

Segment: ISA - Interchange Control Header

Level: n/a

Max Use/Loops: 1 per interchange/none

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

General Information: Mandatory.

Example: ISA~00~ ~00~ ~01~201495124 ~
 01~9999999999 ~110401~1312~U~00401~000000001~1~
 P~

| Elem ID | Elem# | Name | Features | Comments |
|---------|-------|---------------------------------|------------|--|
| ----- | ----- | ----- | ----- | ----- |
| ISA01 | 744 | Authorization Information Qual | M ID 02/02 | "00" (Zeros) No authorization information present |
| ISA02 | 745 | Authorization Information | M AN 10/10 | Use 10 spaces |
| ISA03 | 746 | Security Information Qual | M ID 02/02 | "00" (Zeros) No security information present |
| ISA04 | 747 | Security Information | M AN 10/10 | Use 10 spaces |
| ISA05 | 704 | Interchange Sender ID Qualifier | M ID 02/02 | "01" for DUNS number |
| ISA06 | 705 | Interchange Sender ID | M ID 15/15 | Use your company's DUNS number. Left justified. |

Segment: ISA - Interchange Control Header

| Elem ID ----- | Elem# ----- | Name ----- | Features ----- | Comments ----- |
|------------------|----------------|--------------------------------------|-------------------|--|
| ISA07 | 704 | Interchange Receiver ID Qualifier | M ID 02/02 | "01" for DUNS number |
| ISA08 | 706 | Interchange Receiver ID | M ID 15/15 | Use "201495124" left justified. |
| ISA09 | 373 | Interchange Date | M DT 06/06 | Date of Transmission (YYMMDD) |
| ISA10 | 337 | Interchange Time | M TM 04/04 | Time of Transmission (HHMM) 24 hour clock |
| ISA11 | 726 | Interchange Standard ID | M ID 01/01 | "U" for USA |
| ISA12 | 703 | Interchange Version ID | M ID 05/05 | "00401" |
| ISA13 | 709 | Interchange Control ID | M N0 09/09 | Sequential Number starting with 1 and incremented by 1 for each ISA sent. |
| ISA14 | 749 | Acknowledgement ID | M ID 01/01 | "0" for acknowledge- ment not required. |
| ISA15 | 748 | Test Indicator | M ID 01/01 | "P" |
| ISA16 | 701 | Sub Element Separator | M AN 01/01 | Must be different then the element separator. |

4.2 Element separators and segment terminator

Algoma uses the following characters:

- Segment terminator ANSI Hex "1C"
- Element separator ANSI Hex "7E"
- Sub element separator ANSI Hex "3A"

4.3 IEA - Interchange Control Trailer

Segment: IEA - Interchange Control Trailer
Level: n/a
Max Use/Loops: 1 per interchange/none
Purpose: To define the end of an interchange of one or more functional groups and interchange related control segments.
General Information: None
Example: IEA~3~000000001□

| Elem ID | Elem# | Name | Features | Comments |
|---------|-------|----------------------------|------------|---|
| ----- | ----- | ----- | ----- | ----- |
| IEA01 | 405 | Number of Included Groups | M N0 01/05 | Number of GS segments included between ISA and this IEA |
| IEA02 | 709 | Interchange Control Number | M N0 09/09 | Must match ISA13 |

SECTION 5. FUNCTIONAL GROUP ENVELOPE

5.1 GS - Functional Group Header

Segment: GS - Functional Group Header

Level: n/a

Max Usage/Loops: 1/None

Purpose: The GS segment is used to indicate the beginning of a functional group and to provide control information

General Information: Mandatory.

Example: GS~RC~999999999~201495124~20110401~1312~1~X~004010□

| Elem ID | Elem# | Name | Features | Comments |
|---------|-------|---------------------------------|------------|---|
| ----- | ----- | ----- | ----- | ----- |
| GS01 | 479 | Functional ID | M ID 02/02 | "RC" |
| GS02 | 142 | Application Sender Code | M ID 02/12 | Use your company's DUNS number |
| GS03 | 124 | Application Receiver Code | M ID 02/12 | "201495124" |
| GS04 | 29 | Data Interchange Date | M DT 08/08 | Date created (CCYYMMDD) |
| GS05 | 30 | Data Interchange Time | M TM 04/04 | Time created (HHMM) 24 hour clock |
| GS06 | 28 | Data Interchange Control Number | M N0 01/09 | Start with 1 and increment by 1 for each subsequent GS between interchanges |
| GS07 | 455 | Responsibility Agency | M ID 01/02 | Use "X" for ANSI X12 code formats |
| GS08 | 480 | Version | M ID 01/12 | "004010" |

5.2 GE - Functional Group Trailer

Segment: GE - Functional Group Trailer

Level: n/a

Max Usage/Loops: 1 per functional group/none

Purpose: To define (specify) the end of a functional group of related transaction sets.

General Information: Mandatory.

Example: GE~3~1□

| Elem ID | Elem# | Name | Features | Comments |
|---------|-------|-------------------------------------|------------|---|
| ----- | ----- | ----- | ----- | ----- |
| GE01 | 97 | Number of Included Transaction Sets | M N0 01/06 | Total count of transaction sets in functional group |
| GE02 | 28 | Data Interchange Control Number | M N0 01/09 | Same as GS06 in the associated group header |

SECTION 6. 861 TRANSACTION SET

6.1 Data Segment Sequence

| | |
|-----|--|
| ST | Transaction Set Header |
| BRA | Beginning Segment for Receiving Advice |
| REF | Reference number (Bill of Lading) |
| DTM | Date/Time reference (received) |
| N1 | Name (Outside Processor) |
| N1 | Name (Supplier/Manufacturer) |
| | |
| RCD | Receiving Conditions |
| LIN | Item identification |
| REF | Reference number (charged material ID) |
| | |
| CTT | Transaction Totals |
| SE | Transaction Set Trailer |

6.2 ST - Transaction Set Header

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

Example: ST~861~0001□

| Elem ID | Elem# | Name | Features | Comments |
|---------|-------|--------------------------------|------------|---|
| ----- | ----- | ----- | ----- | ----- |
| ST01 | 143 | Transaction Set ID Code | M ID 03/03 | Use "861" |
| ST02 | 329 | Transaction Set Control Number | M AN 04/09 | A unique number assigned to each transaction set within a functional group. |

6.3 BRA - Beginning Segment for Receiving Advice

Segment: BRA - Beginning Segment for Receiving Advice

Level: Heading

Max Usage/Loops: 1

Purpose: To indicate the beginning of the receiving advice transaction set and transmit identifying numbers and date

General Information: Mandatory.

Example: BRA~135711~20110401~00~1~0240□

| Elem ID | Elem# | Name | Features | Comments |
|---------|-------|--|------------|---|
| ----- | ----- | ----- | ----- | ----- |
| BRA01 | 127 | Reference number | M AN 01/30 | Number assigned by sender uniquely identifying the transaction set. |
| BRA02 | 373 | Date | M DT 08/08 | Creation date (CCYYMMDD) |
| BRA03 | 353 | Transaction set purpose code | M ID 02/02 | "00" |
| BRA04 | 962 | Receiving advice or acceptance certificate type code | M ID 01/01 | "1" (receiving dock) "2" (post receipt) |
| BRA05 | 337 | Time | M TM 04/08 | Creation time (HHMM) |
| BRA06 | 412 | Receiving condition code | M ID 02/02 | Not used. |
| BRA07 | 306 | Action Code | M ID 01/02 | Not used. |

6.4 REF - Reference Number

Segment: REF - Reference number

Level: Heading

Max Usage/Loops: 12

Purpose: To specify identifying numbers.

General Information: One occurrence required: bill of lading number.

Example: REF~BM~100012345□

| Elem ID | Elem# | Name | Features | Comments |
|------------|-------|-------------------------------|------------|--------------------------|
| ----- | ----- | ----- | ----- | ----- |
| REF01 . | 128 | Reference number Qualifier | M ID 02/03 | "BM " bill of lading. |
| REF02 | 127 | Reference number | M AN 01/30 | Algoma's shipment number |
| REF03 | 352 | Description | O AN 01/80 | Not used. |

6.5 DTM - Date/Time Reference

Segment: DTM - Date/Time Reference

Level: Heading

Max Usage/Loops: 10

Purpose: To specify pertinent dates and times.

General Information: One occurrence of the DTM segment is required at the header level (received date/time).

Example: DTM~050~20110401~1030□

| Elem ID | Elem# | Name | Features | Comments |
|---------|-------|--------------------------------------|------------|--------------------------|
| ----- | ----- | ----- | ----- | ----- |
| DTM01 | 374 | Date/Time qual. Code | M ID 03/03 | "050" received |
| DTM02 | 373 | Date | M DT 08/08 | Date Received (CCYYMMDD) |
| DTM03 | 337 | Time | M TM 04/08 | Time Received (HHMM) |
| DTM04 | 623 | Time code | O ID 02/02 | Not used. |
| DTM05 | 1250 | Date/Time Period Format Qualifier | C ID 02/03 | Not used. |
| DTM06 | 1251 | Date/Time Period | C AN 01/35 | Not used. |

6.6 N1 - Name

Segment: N1 - Name

Level: Heading

Max Usage/Loops: 1 per N1 loop whose max usage is 200 per loop.

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

General Information: Two occurrences required: Outside processor and manufacturer segments. Algoma will provide the processor's supplier ID for each location.

Example: N1~SU~Algoma Steel Inc.~1~201495124□
 N1~OU~ACME~ZZ~HH22□

| Elem ID ----- | Elem# ----- | Name ----- | Features ----- | Comments ----- |
|------------------|----------------|--------------------------|-------------------|--|
| N101 | 98 | Entity Identifier Code | M ID 02/03 | "OU" for outside processor. "SU" for supplier/manufacturer. |
| N102 | 93 | Name | M AN 01/60 | Organization's name. |
| N103 | 66 | ID Code Qualifier | M ID 01/02 | "1" for DUNS number. "ZZ" for Assigned ID |
| N104 | 67 | ID Code | M AN 02/80 | DUNS number for SU. Assigned ID for ZZ. |
| N105 | 706 | Entity Relationship Code | O ID 02/02 | Not used. |
| N106 | 98 | Entity Identifier Code | O AN 02/03 | Not used. |

6.7 RCD - Receiving Conditions

Segment: RCD - Receiving Conditions

Level: Detail

Max Usage/Loops: 200,000 per RCD Loop.

Purpose: To report receiving conditions and specify contested quantities.

General Information: One RCD loop must be sent for each line item being reported.

Example: RCD~~1~EA□

| Elem ID | Elem# | Name | Features | Comments |
|---------|-------|-------------------------------------|------------|-------------------|
| ----- | ----- | ----- | ----- | ----- |
| RCD01 | 350 | Assigned id. | O AN 01/20 | Not used. |
| RCD02 | 663 | Quantity Units received or accepted | M R 01/09 | Quantity received |
| RCD03 | 355 | Unit of measure code | M ID 02/02 | "EA" (each) |
| RCD04 | 664 | Quantity units returned | M R 01/09 | Not Used |
| RCD05 | 355 | Unit of measure code | M ID 02/02 | Not Used |
| . | | | | |
| . | | | | |
| . | | | | |
| RCD21 | 380 | Quantity | O R 01/15 | Not Used |

6.8 LIN - Item identification

Segment: LIN - Item identification

Level: Detail

Max Usage/Loops: 100 per RCD Loop.

Purpose: To specify basic item identification data.

General

Information: Require: Heat number, Manufacturer Serial number, Manufacturer's mill number, Manufacturer's item number, Movement type code for transload & storage facilities.

Example: LIN~~HN~1223A1 22~SN~HA123987~VO~8012345~VN~000123~MO~T□

| Elem ID | Elem# | Name | Features | Comments |
|---------|-------|------------------------------|------------|--|
| ----- | ----- | ----- | ----- | ----- |
| LIN01 | 350 | Assigned id. | O AN 01/20 | Not used. |
| LIN02 | 235 | Product/service ID qualifier | M ID 02/02 | "HN" Heat Number |
| LIN03 | 234 | Product/service ID | M AN 01/48 | Heat Number (6 or 9 characters) |
| LIN04 | 235 | Product/service ID qualifier | M ID 02/02 | "SN" |
| LIN05 | 234 | Product/service ID | M AN 01/48 | Piece ID (batch ID) |
| LIN06 | 235 | Product/service ID qualifier | M ID 02/02 | "VO" Vendor's Order # |
| LIN07 | 234 | Product/service ID | M AN 01/48 | Sales order number |
| LIN08 | 235 | Product/service ID qualifier | M ID 02/02 | "VN" Vendor's Item # |
| LIN09 | 234 | Product/service ID | M AN 01/48 | Sales item number |
| LIN10 | 235 | Product/service ID qualifier | M ID 02/02 | "MO" Movement type code |
| LIN11 | 234 | Product/service ID | M AN 01/48 | "T" to indicate transload material. "S" to indicate storage material. |

LIN12 through LIN31 provide 11 additional pairs of Product/Service ID qualifier(235) and product/service ID (234).

6.9 REF - Reference Number

Segment: REF - Reference Numbers

Level: Detail

Max Usage/Loops: 12 per RCD loop.

Purpose: To transmit identifying numbers.

General Information: Used to specify the processor's charged material ID.

Example: REF~RV~3232418□

| Elem ID | Elem# | Name | Features | Comments |
|---------|-------|----------------------------|------------|---|
| ----- | ----- | ----- | ----- | ----- |
| REF01 | 128 | Reference Number Qualifier | M AN 02/03 | "RV" for processor's charged material ID. |
| REF02 | 127 | Reference Number | M AN 01/30 | Processor's charged material ID. |
| REF03 | 352 | Description | O AN 01/80 | Not used. |

6.10 CTT - Transaction Totals

Segment: CTT - Transaction Totals

Level: Summary

Max Usage/Loops: 1/none.

Purpose: To transmit hash totals for a specific element in the transaction set.

General Information: Mandatory.

Example: CTT~1~1□

| Elem ID | Elem# | Name | Features | Comments |
|---------|-------|--------------------------|------------|-------------------------------|
| ----- | ----- | ----- | ----- | ----- |
| CTT01 | 354 | Number of Line Items | M N0 01/06 | Total number of RCD segments. |
| CTT02 | 347 | Hash Total | M R 01/10 | Hash total of RCD02 elements. |
| CTT03 | 81 | Weight | O R 01/10 | Not used. |
| CTT04 | 355 | Unit of Measurement Code | O ID 02/02 | Not used. |
| CTT05 | 183 | Volume | O R 01/08 | Not used. |
| CTT06 | 355 | Unit of Measurement Code | O ID 02/02 | Not used. |
| CTT07 | 352 | Description | O AN 01/80 | Not used. |

6.11 SE - Transaction Set Trailer

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) segment).

General Information: Mandatory.

Example: SE~23~0001□

| Elem ID | Elem# | Name | Features | Comments |
|---------|-------|--------------------------------|------------|--|
| ----- | ----- | ----- | ----- | ----- |
| SE01 | 96 | Number of Included Segments | M NO 01/06 | Number of segments in a transaction set including the ST & SE segments |
| SE02 | 329 | Transaction Set Control Number | M AN 04/09 | Same as ST02 |

SECTION 7. Data Element Dictionary

| | |
|-----|------------------------------|
| 66 | ID Code Qualifier |
| 1 | DUNS number |
| 98 | Entity Identifier Code |
| OU | Outside Processor |
| SU | Supplier/Manufacturer |
| 128 | Reference Number Qualifier |
| BM | Bill of lading number |
| RV | Receiving Number |
| 235 | Product/Service ID Qualifier |
| HN | Heat number |
| SN | Serial number |
| VN | Vendors Item Number |
| VO | Vendors Order Number |
| 355 | Unit of Measurement Code |
| EA | Each |
| 374 | Date/Time Qualifier |
| 050 | Received |
| 962 | Receiving Advice Type Code |
| 1 | Receiving dock advice |
| 2 | Post Receipt advice |

SECTION 8. 861 SAMPLE TRANSACTION

ISA~00~ ~00~ ~01~999999999 ~01~201495124 ~
110401~1312~U~00401~000000001~0~P~ □
GS~RC~999999999CL~201495124~20110401~1312~1~X~004010□
ST~861~0001□
BRA~6332111~20110401~00~1~0240□
REF~BM~100023452□
DTM~050~20110401~1230□
N1~SU~Algoma Steel Inc.~1~201495124□
N1~OU~ACME~ZZ~HHAA□
RCD~~1~EA□
LIN~~HN~1221A4 01~SN~HA1234678~VO~8002345~VN~000123~MO~T□
REF~RV~987654□
RCD~~1~EA□
LIN~~HN~8228A1~SN~25534678~VO~8002345~VN~000123~MO~T□
REF~RV~987655□
CTT~2~2□
SE~14~0001□
GE~1~1□
IEA~1~000000001□