

## **Implementation Guide for EDI Conventions**

Planning Schedule Transaction Set (830)

AIAG Version 2040 ANSI ASC X12

Revision 1.05 October 1, 2012

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## **Document Change Log**

| Version | Date              | Description  |
|---------|-------------------|--|
| 1.00    | March 1, 2006     | Document issued.   |
| 1.01    | May 8, 2007       | Added "An Asahi Tech Company" to the Metaldyne Title.  |
| 1.02    | December 10, 2007 | Add ISA ID for Metaldyne-Ramos in the "Metaldyne ISA and GS ID Information" chart.   |
| 1.03    | February 26, 2010 | Removed "An Asahi Tech Company" from the Metaldyne title. Removed some locations in the "Metaldyne ISA and GS ID Information" chart. |
| 1.04    | July 7, 2010      | Updated the "Metaldyne ISA and GS ID Information" chart.   |
| 1.04    | October 1, 2012   | Added "A" = Past due – Ship immediate to the FST02 element.  |

Metaldyne's EDI documents are exchanged using the data messaging services of Covisint, a subsidiary of Compuware Corporation. You will have to approve the Trading Partner Relationship we have created in Covisint before EDI documents can be exchanged. Please set up relationships for all Metaldyne locations as defined on the following pages.

**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\*118733062 \*01\*201547189

\*060217\*1243\*U\*00204\*000000467\*0\*P\*|?

| Elem<br>ID | Elem<br># | Element Name                                | Attributes | MD<br>Use | Comments   |
|------------|-----------|---|------------|-----------|--|
| ISA01      | I01       | Authorization<br>Information Qualifier      | M ID 2/2   | Yes       | 00 = No authorization information included   |
| ISA02      | I02       | Authorization<br>Information                | M AN 10/10 | Yes       | If ISA01 = 00 use ten spaces   |
| ISA03      | I03       | Security Information<br>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<br>Qualifier                 | M ID 2/2   | Yes       | 01 = Duns Number   |
| ISA06      | I06       | Interchange Sender ID                       | M AN 15/15 | Yes       | See next page for<br>Metaldyne IDs   |
| ISA07      | 105       | Interchange ID<br>Qualifier                 | M ID 2/2   | Yes       | <ul><li>01 = Duns Number</li><li>12 = Phone Number</li><li>ZZ = Mutually Defined</li></ul> |
| ISA08      | I07       | Interchange Receiver ID                     | M AN 15/15 | Yes       |  |
| 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<br>Standards Identifier | M ID 1/1   | Yes       | U = USA  |

| ISA12 | I11 | Interchange Control<br>Version Number | M ID 5/5 | Yes | Use 00204   |
|-------|-----|---------------------------------------|----------|-----|---|
| ISA13 | I12 | Interchange Control<br>Number         | M N0 9/9 | Yes | Must be the same as IEA02.<br>A sequential number starting with 1 and incremented by 1 for each ISA between sender and receiver |
| ISA14 | I13 | Acknowledgment<br>Requested           | M ID 1/1 | Yes | 1 = Acknowledgment required   |
| ISA15 | I14 | Usage Indicator                       | M ID 1/1 | Yes | P = Production data   |
| ISA16 | I15 | Component Element<br>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~PS~118733062~201547189~060217~1243~467~X~002040

| Elem<br>ID  | Elem<br># | Element Name                                       | Attributes | MD<br>Use | Comments   |
|-------------|-----------|--|------------|-----------|--|
| <b>GS01</b> | 479       | Functional Identifier<br>Code                      | M ID 2/2   | Yes       | PS=Planning Schedule   |
| GS02        | 142       | Application Sender's Code                          | M AN 2/15  | Yes       | See next page for<br>Metaldyne IDs   |
| GS03        | 124       | Application Receiver's Code                        | M AN 2/15  | Yes       |  |
| <b>GS04</b> | 029       | Date   | M DT 6/6   | Yes       | Date created. (YYMMDD)   |
| <b>GS05</b> | 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. |
| <b>GS07</b> | 455       | Responsible Agency<br>Code                         | M ID ½     | Yes       | "X" = ASC X12  |
| GS08        | 480       | Version / Release /<br>Industry Identifier<br>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       | 01:118733062             | 092041409 | Covisint |  |  |  |  |  |
| 131 West Harvest Road    |                          |           |          |  |  |  |  |  |
| Bluffton, Indiana 46714  |                          |           |          |  |  |  |  |  |
| Metaldyne Fremont        | 01:118733062             | 005174933 | Covisint |  |  |  |  |  |
| 307 S. Tillotson         |                          |           |          |  |  |  |  |  |
| Fremont, IN 46737        |                          |           |          |  |  |  |  |  |
| Metaldyne Twinsburg      | 01:118733062             | 785126632 | Covisint |  |  |  |  |  |
| 8001 Bavaria Road        |                          |           |          |  |  |  |  |  |
| Twinsburg,OH 44087       |                          |           |          |  |  |  |  |  |
|                          | <b>Sintered Products</b> |           | _        |  |  |  |  |  |
| Metaldyne North Vernon   | 01:840551634             | 840551634 | Covisint |  |  |  |  |  |
| 3100 North Highway #3    |                          |           |          |  |  |  |  |  |
| North Vernon, IN, 47265  |                          |           |          |  |  |  |  |  |
| Metaldyne Ridgway        | 01:063654768             | 063654768 | Covisint |  |  |  |  |  |
| 1149 Rocky Road          |                          |           |          |  |  |  |  |  |
| Ridgway, PA 15853        |                          |           |          |  |  |  |  |  |
| Metaldyne St. Marys      | 01:079365222             | 079365222 | Covisint |  |  |  |  |  |
| 197 West Creek Road      |                          |           |          |  |  |  |  |  |
| St. Marys PA 15857       |                          |           |          |  |  |  |  |  |
| Metaldyne Warren         | 01:884079021             | 884079021 | Covisint |  |  |  |  |  |
| 30500 Ryan Rd            |                          |           |          |  |  |  |  |  |
| Warren, Mi 48092         |                          |           |          |  |  |  |  |  |
| Metaldyne - Mexico       | ZZ:METALDYNERA           | 812519932 | Covisint |  |  |  |  |  |
| Blvd. Industrias de la   |                          |           |          |  |  |  |  |  |
| Transformación 3120      |                          |           |          |  |  |  |  |  |
| Ramos Arizpe, Coahuila,  |                          |           |          |  |  |  |  |  |
| México 25900             |                          |           |          |  |  |  |  |  |
| Vil                      | oration Control Product  |           |          |  |  |  |  |  |
| Metaldyne Litchfield     | 01:118733062             | 045245149 | Covisint |  |  |  |  |  |
| 917 Anderson Road        |                          |           |          |  |  |  |  |  |
| Litchfield, MI 49252     |                          |           |          |  |  |  |  |  |

#### Introduction.

Metaldyne requires its suppliers to be capable of EDI communications to maintain a competitive position in the automotive industry.

As of the release of this document Metaldyne is requiring suppliers of direct raw materials to electronically receive from Metaldyne material planning information. Other Metaldyne suppliers will be notified of the need to comply with EDI requirements on a selected basis.

This document presents the Planning Schedule (document 830) transaction set as implemented at Metaldyne. This specification closely follows the AIAG 2040 specification for the Planning Schedule (830).

Metaldyne requires a 997 Functional Acknowledgement be returned for each 830 Planning Schedule sent to your company. Any Version is acceptable.

#### **Planning Schedule Structure.**

A Planning Schedule will consist of three levels of hierarchical structures containing:

- 1. Header
- 2. Detail
- 3. Summary

A Planning Schedule will contain one Header level. There will be one Detail level for each separate item that is included in the plan. There must be one Summary level at the end of the document.

Only the segments shown in this document at their respective hierarchical levels are used in a Planning Schedule from Metaldyne. All other segment types not shown are not used and are omitted.

#### **Segment Descriptions.**

The description of each segment is divided into two parts, as follows.

The **first part** provides a general description of the segment. The *Segment, Level, Loop, Usage, Max Usage*, and *Purpose* sections are a generic description of the segment. The *Notes* section provides information about the segment and **may contain information specific to Metaldyne's usage of the segment**. The *Example* section shows a typical example of the segment.

In the **second part** each of the elements in each segment is examined in detail. *Review these sections carefully because element sizes may be smaller than expected* or elements are not used at Metaldyne.

The *Elem ID*, *Elem #* and *Element Name* elements sections are simply the standard element descriptors from the AIAG manual for 830s.

The *Attributes* section describes whether the element is **M**andatory or **O**ptional, the type of element, and the minimum and maximum element length. Note that the maximum length of some elements will follow AIAG specifications length allowed in the Planning Schedule. However, Metaldyne may only use part of the element length allowed by the AIAG specifications. The maximum length used by Metaldyne is shown as the maximum length.

The MD Use section indicates whether Metaldyne uses this element.

The *Comments* section provides important information as to how each element is to be interpreted. If additional information about this element is required it will appear following the second part.

After all of the segments have been described, an example of a complete Planning Schedule will be provided.

## **Header Level.**

The Header level specifies information which pertains to the entire planning schedule. The segments at this level follow the standard EDI interpretation for a planning schedule with release capability.

The segments included in this level are:

| SEG ID | Segment Name                                    | Metaldyne Use  |
|--------|---|----------------|
| ST     | Transaction Set Header                          | Yes            |
| BFR    | Beginning Segment for Forecast/Material Release | Yes            |
| NTE    | Note/Special Instruction                        | Yes - Optional |
| CUR    | Currency  | No             |
| REF    | Reference Numbers                               | No             |
| PER    | Administrative Communication Contact            | No             |
| TAX    | Tax Reference                                   | No             |
| FOB    | F.O.B. Related Instructions                     | No             |
| N1     | Name  | Yes            |
| N2     | Additional Name Information                     | No             |
| N3     | Address Information                             | Yes - Optional |
| N4     | Geographic Location                             | Yes - Optional |
| REF    | Reference Numbers                               | No             |
| PER    | <b>Administrative Communications Contact</b>    | Yes - Optional |
| FOB    | F.O.B. Related Instructions                     | No             |
| CTP    | Pricing Information                             | No             |
| SSS    | Special Services                                | No             |
| CSH    | Header Sale Condition                           | No             |
| ITD    | Terms of Sale/Deferred Terms of Sale            | No             |
| DTM    | Date/Time Reference                             | No             |
| PID    | Product/Item Description                        | No             |
| MEA    | Measurements                                    | No             |
| PWK    | Paperwork                                       | No             |
| PKG    | Marking, Packaging, Loading                     | No             |
| TD1    | Carrier Details (Quantity and Weight)           | No             |
| TD5    | Carrier Details (Routing Sequence/Transit Time) | No             |
| TD3    | Carrier Details (Equipment)                     | No             |
| TD4    | Carrier Details (Special Handling)              | No             |
| MAN    | Marks and Numbers                               | No             |
| LM     | Code Source Information                         | No             |
| LQ     | Industry Code                                   | No             |

**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\*830\*1

| Elem<br>ID | Elem<br># | Element Name                       | Attributes | MD<br>Use | Comments   |
|------------|-----------|------------------------------------|------------|-----------|--|
| ST01       | 143       | Transaction Set Identifier<br>Code | M ID 3/3   | Yes       | Use 830 = Planning Schedule  |
| ST02       | 329       | Transaction Set Control<br>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: BFR** - Beginning segment for Forecast/Material Release.

**Level:** Header

Loop: -

**Usage:** Mandatory

Max Use: 1

**Purpose:** To indicate the beginning of a planning schedule transaction set

and related forecast dates.

**Notes:** Element BFR04 indicates whether the planning schedule is

shipment or delivery based.

**Examples:** BFR\*05\*\*266716 06021601\*DL\*A\* 060220\*070226\*060216

| Elem  | Elem | Element Name                   | Attributes | MD  | Comments  |
|-------|------|--------------------------------|------------|-----|---|
| ID    | #    |                                |            | Use | _   |
| BFR01 | 353  | Transaction Set Purpose Code   | M ID 2/2   | Yes | "05" = Replace.   |
| BFR02 | 127  | Reference Number               | O AN 1/30  | No  |   |
| BFR03 | 328  | Release Number                 | M AN 1/30  | Yes |   |
| BFR04 | 675  | Schedule Type Qualifier        | M ID 2/2   | Yes | "DL" = Delivery based   |
| BFR05 | 676  | Schedule Quantity<br>Qualifier | M ID 1/1   | Yes | "A" = Discrete Quantities   |
| BFR06 | 373  | Forecast Horizon Start         | M DT 6/6   | Yes | Horizon start date: the date when the forecast horizon begins in YYMMDD format. |
| BFR07 | 373  | Forecast Horizon End           | M DT 6/6   | Yes | Horizon end date: the date when the forecast horizon ends in YYMMDD format.     |
| BFR08 | 373  | Forecast Generation<br>Date    | M DT 6/6   | Yes | The forecast issue date in YYMMDD format.                                       |

**Segment:** NTE – Notes and Special Instructions.

Level: Header

Loop: -

**Usage:** Floating

**Max Use:** 100

**Purpose:** To transmit information in a free-form format, if necessary, for

comment or special instruction.

**Notes:** 

**Examples:** NTE\*GEN\*Part is consigned from Metaldyne - Ridgeway for

machining?

| Elem<br>ID | Elem<br># | Element Name      | Attributes | MD<br>Use | Comments  |
|------------|-----------|-------------------|------------|-----------|---|
| NTE01      | 363       | Reference Code    | M ID 3/3   | Yes       | Will send "GEN" in the Header area, "LIN" in the Detail area. |
| NTE02      | 003       | Free Form Message | M AN 1/60  | Yes       |   |

Segment: N1 - Name

Level: Header

Loop: N1

**Usage:** Mandatory

Max Use: 4

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

**Notes:** Metaldyne uses three N1 segments at the Header level. Your

Metaldyne assigned Supplier/Vendor Number will be sent in the

"N1\*SU" segment. Your Duns Number will be sent in the

"N1\*SF" segment. Metaldyne's Duns Number will be sent in the

"N1\*ST" segment.

Examples: N1\*ST\*Metaldyne, Inc\*01\*119269827

N1\*SU\*Best Supplier\*ZZ\*00123456 N1\*SF\*Best Supplier\*01\*123456789

| Elem<br>ID | Elem<br># | Element Name              | Attributes | MD<br>Use | Comments  |
|------------|-----------|---------------------------|------------|-----------|---|
| N101       | 98        | Entity Identifier Code    | M ID 2/2   | Yes       | "SF" = Ship-from "ST" = Ship-to "SU" = Supplier                           |
| N102       | 93        | Name                      | O AN 1/35  | Yes       |   |
| N103       | 66        | Identifier Code Qualifier | M ID 1/2   | Yes       | Metaldyne use: "01" = Duns Number "92" or "ZZ" = Metaldyne Assigned Code. |
| N104       | 67        | Identification Code       | M ID 2/18  | Yes       |   |

**Segment:** N3 - Address Information

Level: Header

Loop: N1

Usage: Optional

Max Use: 4

**Purpose:** To specify the location of the named party.

**Notes:** 

**Examples:** N3\*P.O. Box 615

| Elem<br>ID | Elem<br># | Element Name        | Attributes | MD<br>Use | Comments |
|------------|-----------|---------------------|------------|-----------|----------|
| N301       | 166       | Address information | M AN 1/35  | Yes       |          |
| N302       | 166       | Address information | O AN 1/35  | Yes       |          |

Segment: N4 - Geographic Location

Level: Header

Loop: N1

Usage: Optional

Max Use: 4

**Purpose:** To specify the location of the named party.

**Notes:** 

**Examples:** N4\*Fremont\*IN\*46737-061

| Elem | Elem | Element Name | Attributes | MD  | Comments |
|------|------|--------------|------------|-----|----------|
| ID   | #    |              |            | Use |          |
| N401 | 019  | City Name    | M AN 2/19  | Yes |          |
| N402 | 156  | State        | M ID 2/2   | Yes |          |
| N403 | 116  | Zip Code     | M ID 5/9   | Yes |          |

**Segment: PER** - Administrative Communications contact

Level: Header

Loop: N1

Usage: Optional

Max Use: 1

**Purpose:** To identify a person or office to whom administrative

communications should be directed.

**Notes:** 

**Examples:** PER\*SC\*Lambert, Glenn

| Elem<br>ID | Elem<br># | Element Name          | Attributes | MD<br>Use | Comments |
|------------|-----------|-----------------------|------------|-----------|----------|
| PER01      | 366       | Contact Function Code | M AN 2/2   | Yes       |          |
| PER02      | 093       | Name                  | M AN 1/35  | Yes       |          |

## **Detail Level.**

The **Detail** level specifies those segments which pertain to the items in the planning schedule. The segments included in this level are:

| SEG ID | Segment Name                          | Metaldyne Use |
|--------|---------------------------------------|---------------|
| LIN    | Item Identification Detail            | Yes           |
| UIT    | Unit Detail                           | Yes           |
| CUR    | Currency                              | No            |
| SLN    | Subline Detail                        | No            |
| PID    | Product/Item Description              | No            |
| PO3    | Additional Line Detail                | No            |
| CTP    | Pricing Information                   | No            |
| PID    | Product/Item Description              | No            |
| MEA    | Measurements                          | No            |
| PWK    | Paperwork                             | No            |
| PKG    | Marking, Packaging, Loading           | No            |
| PO4    | Item Physical Details                 | No            |
| PRS    | Part Release Status                   | No            |
| REF    | Reference Numbers                     | No            |
| PER    | Administrative Communications         | No            |
|        | Contact                               |               |
| SSS    | Special Services                      | No            |
| ITA    | Allowance, Charge or Service          | No            |
| ITD    | Terms of Sale/Deferred Terms of Sale  | No            |
| TAX    | Tax Reference                         | No            |
| FOB    | F.O.B. Related Instructions           | No            |
| N1     | Name                                  | No            |
| N2     | Additional Name Information           | No            |
| N3     | Address Information                   | No            |
| N4     | Geographic Information                | No            |
| REF    | Reference Numbers                     | No            |
| PER    | Contacts                              | No            |
| FOB    | F.O.B. Related Instructions           | No            |
| FST    | Forecast Schedule                     | No            |
| SDP    | Ship/Delivery Pattern                 | Yes           |
| FST    | Forecast Schedule                     | Yes           |
| SDQ    | Destination Quantity                  | No            |
| ATH    | Resource Authorizations               | Yes           |
| SHP    | <b>Shipping Information</b>           | Yes           |
| REF    | Reference Numbers                     | Yes           |
| TD1    | Carrier Details (Quantity and Weight) | No            |
| TD5    | Carrier Details (Routing              | No            |
|        | Sequence/Transit Time)                |               |
| TD3    | Carrier Details (Equipment)           | No            |
| TD4    | Carrier Details (Special Handling)    | No            |
| MAN    | Marks and Numbers                     | No            |
| CTT    | Transaction Total                     | Yes           |
| SE     | Transaction Set Trailer               | Yes           |

**Segment:** LIN - Item Identification Detail

Level: Detail

Loop: LIN

**Usage:** Mandatory

Max Use: 1

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

**Notes:** 

**Examples:** LIN\*\*BP\*SPN012402\*PD\*Casting Water Pump\*PO\*458

| Elem<br>ID | Elem<br># | Element Name            | Attributes | MD<br>Use | Comments   |
|------------|-----------|-------------------------|------------|-----------|--|
| LIN01      | 350       | Assigned Identification | O AN 1/6   | No        |  |
| LIN02      | 235       | Product ID Qualifier    | M ID 2/2   | Yes       | "BP" = Buyer's Part Number   |
| LIN03      | 234       | Product ID              | M AN 1/18  | Yes       | Metaldyne Part Number.  NOTE: A Metaldyne Part Number will not exceed 18 characters. |
| LIN04      | 235       | Product ID Qualifier    | M ID 2/2   | Yes       | "PD" = Part Description  |
| LIN05      | 234       | Product ID              | M AN 1/30  | Yes       | Part Description   |
| LIN06      | 235       | Product ID Qualifier    | O ID 2/2   | Yes       | "PO" = Purchase Order<br>Number  |
| LIN07      | 234       | Product ID              | M AN 1/8   | Yes       | Purchase Order Number  NOTE: A Metaldyne PO  Number will not exceed 8  characters.   |

Segment: UIT - Unit Detail

Level: Detail

Loop: LIN

**Usage:** Mandatory

Max Use: 1

**Purpose:** To specify item unit data.

**Notes:** 

**Examples:** UIT\*01

| Elem<br>ID | Elem<br># | Element Name                       | Attribute | MD<br>Use | Comments    |
|------------|-----------|------------------------------------|-----------|-----------|-------------|
| UIT01      | 355       | Unit or Basis for Measurement Code | M ID 2/2  | Yes       | "EA" = Each |

**Segment:** SDP - Ship/Delivery Pattern

Level: Detail

**Loop:** LIN/SDP

**Usage:** Mandatory

Max Use: 1

**Purpose:** To identify specific ship/delivery requirements.

**Notes:** 

**Examples:** SDP\*A\*A

| Elem<br>ID | Elem<br># | Element Name                       | Attributes | MD<br>Use | Comments                    |
|------------|-----------|------------------------------------|------------|-----------|-----------------------------|
| SDP01      | 678       | Ship/Delivery Pattern<br>Code      | M ID 1/1   | Yes       | "A" = Monday - Friday       |
| SDP02      | 679       | Ship/Delivery Pattern<br>Time Code | M ID 1/1   | Yes       | "A" = 1 <sup>st</sup> Shift |

**Segment: FST** - Forecast Schedule

Level: Detail

**Loop:** LIN/SDP

**Usage:** Mandatory

Max Use: 260

**Purpose:** To specify the forecasted dates and quantities.

**Notes:** 

**Examples:** FST\*500\*C\*D\*060213

FST\*300\*D\*D\*060220

| Elem  | Elem | Element Name                 | Attributes | MD  | Comments   |
|-------|------|------------------------------|------------|-----|--|
| ID    | #    |                              |            | Use |  |
| FST01 | 380  | Quantity                     | M R 1/8    | Yes | Discrete requirement quantity. May be zero.                        |
| FST02 | 680  | Forecast Qualifier           | M ID 1/1   | Yes | "A" = Past due – Ship<br>immediate<br>"C" = Firm<br>"D" = Planning |
| FST03 | 681  | Forecast Timing<br>Qualifier | M ID 1/1   | Yes | "D" = Discrete "W" = Weekly "M" = Monthly                          |
| FST04 | 373  | Date                         | M DT 6/6   | Yes | Due Date (YYMMDD)  |

**Segment:** ATH - Resource Authorization

Level: Detail

Loop: LIN

Usage: Optional

Max Use: 3

**Purpose:** To specify resource authorizations (i.e., finished labor, material,

etc.) in the planning schedule.

**Notes:** 

**Examples:** ATH\*FI\*060213\*392221\*\*060101

ATH\*MT\*060212\*300000\*\*060101

| Elem  | Elem | Element Name                   | Attributes | MD  | Comments  |
|-------|------|--------------------------------|------------|-----|---|
| ID    | #    |                                |            | Use |   |
| ATH01 | 672  | Resource Authorization<br>Code | M ID 2/2   | Yes | "FI" = FAB Authorization "MT" = Material Authorization. |
| ATH02 | 373  | Date                           | C DT 6/6   | Yes |   |
| ATH03 | 380  | Quantity                       | M R 1/15   | Yes |   |
| ATH04 | 380  | Quantity                       | O R 1/15   | No  |   |
| ATH05 | 373  | Date                           | M DT 6/6   | Yes |   |

**Segment:** SHP - Shipped/Receive Information

Level: Detail

**Loop:** LIN/SHP

**Usage:** Mandatory

Max Use: 1

**Purpose:** To specify shipment and/or receipt information.

**Notes:** 

**Examples:** SHP\*01\*10125\*050\*060208

SHP\*02\*383400\*051\*060101\*\*060213

| Elem<br>ID | Elem<br># | Element Name        | Attributes | MD<br>Use | Comments  |
|------------|-----------|---------------------|------------|-----------|---|
| SHP01      | 673       | Quantity Qualifier  | M ID 2/2   | Yes       | "01" = Discrete Quantity. "02" = Cumulative Quantity.   |
| SHP02      | 380       | Quantity            | M R 1/15   | Yes       | SHP01 = "01"; Last shipment quantity received.<br>SHP01 = "02"; Year-To-Date received quantity.             |
| SHP03      | 374       | Date/Time Qualifier | M ID 3/3   | Yes       | "050" = Shipment received date. "051" = Cumulative Quantity Start Date.                                     |
| SHP04      | 373       | Date                | M DT 6/6   | Yes       | SHP01 = "01"; Last Ship Date.<br>SHP01 = "02"; Beginning<br>Inventory Date for this ship-to<br>destination. |
| SHP05      | 337       | Time                | O TM 4/8   | No        |   |
| SHP06      | 373       | Date                | C DT 6/6   | Yes       | SHP01 = "02"; Cumulative Quantity End Date  |

**Segment: REF** - Reference Numbers

Level: Detail

**Loop:** LIN/SHP

**Usage:** Mandatory

Max Use: 1

**Purpose:** To specify the Shipment ID Number of the last shipment

received.

**Notes:** 

**Examples:** REF\*SI\*0062892

| Elem  | Elem | Element Name                  | Attributes | MD  | Comments                             |
|-------|------|-------------------------------|------------|-----|--------------------------------------|
| ID    | #    |                               |            | Use |                                      |
| REF01 | 128  | Reference Number<br>Qualifier | M ID 2/2   | Yes | "SI" = Shipper's identifying number. |
| REF02 | 127  | Reference Number              | M AN 1/30  | Yes |                                      |

# Summary level.

The **Summary** hierarchical level specifies those segments, shown as **bold**, which pertain to the complete forecast. The segments included in this level are:

| SEG ID | Segment Name            | Metaldyne Use |
|--------|-------------------------|---------------|
| CTT    | Transaction Totals      | Yes           |
| SE     | Transaction Set Trailer | Yes           |

**Segment:** CTT - Transaction Totals

**Level:** Summary

Loop:

**Usage:** Mandatory

Max Use: 1

**Purpose:** To transmit a hash total for a specific element in the transaction

set.

**Notes:** Used to provide the hash totals for "LIN" segments and for the

total quantities appearing in element "FST01" within this

transaction set.

**Examples:** CTT\*4\*1234567

| Elem<br>ID | Elem<br># | Element Name         | Attributes | MD<br>Use | Comments   |
|------------|-----------|----------------------|------------|-----------|--|
| CTT01      | 354       | Number of Line Items | M NO 1/6   | Yes       | Total number of LIN segments                       |
| CTT02      | 347       | Hash Total           | M R 1/10   | Yes       | The hash total of all quantities released (FST01). |

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

### Metaldyne (830) Example.

```
ST*830*820001
BFR*05**266650 06021601*DL*A*060220*070226*060216
N1*ST*Metaldyne - New Castle*01*006068506
N4*New Castle*IN*47362
PER*SC*NC- East Building
N1*SU*Best Supplier*ZZ*00123456
N1*SF*Best Supplier*01*123456789
N4*Plymouth*MI*48170
LIN**BP*01234567AD*PD*LX SRT8 Silver Caliper*PO*1557
UIT*EA
SDP*A*A
FST*1320*A*D*060219
FST*420*C*D*060220
FST*420*C*D*060227
FST*480*C*D*060306
FST*480*C*D*060313
FST*480*C*D*060320
FST*480*C*D*060327
FST*480*D*D*060403
FST*960*D*D*060410
FST*2160*D*D*060424
FST*720*D*D*060529
FST*600*D*D*060626
FST*0*D*D*060731
FST*0*D*D*060828
FST*0*D*D*060925
FST*1200*D*D*061030
FST*1200*D*D*061127
FST*1200*D*D*061226
FST*1200*D*D*070129
FST*1200*D*D*070226
ATH*FI*060216*5781**060101
SHP*01*300*050*060216
REF*SI*0062892
SHP*02*4461*051*060101**060216
LIN**BP*SPN016580*PD*HUB*PO*1557
UIT*EA
SDP*A*A
FST*320*C*D*060219
FST*920*C*D*060220
FST*920*C*D*060227
FST*980*C*D*060306
FST*980*C*D*060313
FST*980*C*D*060320
FST*980*C*D*060327
FST*980*D*D*060403
FST*960*D*D*060410
FST*2160*D*D*060424
FST*720*D*D*060529
FST*600*D*D*060626
FST*1200*D*D*060731
FST*1200*D*D*060828
FST*1200*D*D*060925
FST*1200*D*D*061030
FST*1200*D*D*061127
FST*1200*D*D*061226
FST*1200*D*D*070129
```

FST\*1200\*D\*D\*070226 ATH\*FI\*060216\*5781\*\*060101 SHP\*01\*300\*050\*060216 REF\*SI\*0062891 SHP\*02\*5461\*051\*060101\*\*060216 CTT\*1\*18600 SE\*63\*820001