

# 856 Ship Notice/Manifest

Functional Group ID=**SH**

## Transaction Layout:

### Heading:

| <u>ARM</u>  | <u>Pos.</u> | <u>Seg.</u> | <u>Name</u>                       | <u>Req.</u> | <u>Max.Use</u> | <u>Loop</u>   | <u>Notes and</u> |
|-------------|-------------|-------------|-----------------------------------|-------------|----------------|---------------|------------------|
| <u>Req.</u> | <u>No.</u>  | <u>ID</u>   |                                   | <u>Des.</u> |                | <u>Repeat</u> | <u>Examples</u>  |
| Required    | 010         | ST          | Transaction Set Header            | M           | 1              |               |                  |
| Required    | 020         | BSN         | Beginning Segment for Ship Notice | M           | 1              |               |                  |
| Required    | 030         | DTM         | Date/Time Reference               | O           | 10             |               |                  |

### Detail:

| <u>Pos.</u>          | <u>Seg.</u> | <u>Name</u> | <u>Req.</u>  | <u>Max.Use</u> | <u>Loop</u>   | <u>Notes and</u> |
|----------------------|-------------|-------------|--|----------------|---------------|------------------|
| <u>No.</u>           | <u>ID</u>   |             | <u>Des.</u>  |                | <u>Repeat</u> | <u>Examples</u>  |
| <b>LOOP ID - HL</b>  |             |             |  |                |               |                  |
| Required             | 010         | HL          | Hierarchical Level                                   | M              | 1             | c1               |
| Required             | 020         | MEA         | Measurements   | O              | 40            |                  |
| Required             | 030         | TD1         | Carrier Details (Quantity and Weight)                | O              | 20            |                  |
| Required             | 040         | TD5         | Carrier Details (Routing Sequence/Transit Time)      | O              | 12            |                  |
| Required             | 050         | TD3         | Carrier Details (Equipment)                          | O              | 12            |                  |
| Required             | 060         | REF         | Reference Identification                             | O              | >1            |                  |
| <b>LOOP ID - N1</b>  |             |             |  |                |               |                  |
| Required             | 070         | N1          | Name   | O              | 1             |                  |
| <b>LOOP ID - SAC</b> |             |             |  |                |               |                  |
|                      | 140         | SAC         | Service, Promotion, Allowance, or Charge Information | O              | 1             | >1               |
| <b>LOOP ID - HL</b>  |             |             |  |                |               |                  |
| Required             | 160         | HL          | Hierarchical Level                                   | M              | 1             | c2               |
| Required             | 170         | LIN         | Item Identification                                  | O              | 1             |                  |
| Required             | 180         | SN1         | Item Detail (Shipment)                               | O              | 1             |                  |
| Required             | 200         | PRF         | Purchase Order Reference                             | O              | 1             |                  |
| <b>LOOP ID - CLD</b> |             |             |  |                |               |                  |
|                      | 380         | CLD         | Load Detail  | O              | 1             |                  |
| Required             | 390         | REF         | Reference Identification                             | O              | 200           |                  |

### Summary:

| <u>Pos.</u> | <u>Seg.</u> | <u>Name</u> | <u>Req.</u>             | <u>Max.Use</u> | <u>Loop</u>   | <u>Notes and</u> |
|-------------|-------------|-------------|-------------------------|----------------|---------------|------------------|
| <u>No.</u>  | <u>ID</u>   |             | <u>Des.</u>             |                | <u>Repeat</u> | <u>Examples</u>  |
| Required    | 010         | CTT         | Transaction Totals      | O              | 1             | n1               |
| Required    | 020         | SE          | Transaction Set Trailer | M              | 1             |                  |

## ArvinMeritor Segment/Element Usage Notes

1. For Segment requirements, refer to the column titled "ARM Req." in the table above for those segments that are required in the transaction.
2. For Element requirements, refer to the column titled "ARM Req." in the element tables for each segment detailed in the pages that follow. If the segment is used, then these elements are required.

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number

**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).

**Examples:** ST\*856\*12341~

**Data Element Summary**

| <u>ARM</u><br><u>Req.</u><br>Required | <u>Ref.</u><br><u>Des.</u><br>ST01 | <u>Data</u><br><u>Element</u><br>143 | <u>Name</u><br>Transaction Set Identifier Code<br>Code uniquely identifying a Transaction Set<br>Refer to 004010 Data Element Dictionary for acceptable code values.          | <u>Attributes</u><br>M ID 3/3 |
|---------------------------------------|------------------------------------|--------------------------------------|---|-------------------------------|
| Required                              | ST02                               | 329                                  | Transaction Set Control Number<br>Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | M AN 4/9                      |

**Segment:** **BSN** Beginning Segment for Ship Notice  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set

**Semantic Notes:** 1 BSN03 is the date the shipment transaction set is created.  
 2 BSN04 is the time the shipment transaction set is created.

**Examples:** BSN\*00\*776655\*20030301\*1614~

**Data Element Summary**

| <u>ARM</u>  | <u>Ref.</u> | <u>Data</u>    | <u>Name</u>  | <u>Attributes</u> |
|-------------|-------------|----------------|--|-------------------|
| <u>Req.</u> | <u>Des.</u> | <u>Element</u> |  |                   |
| Required    | BSN01       | 353            | <b>Transaction Set Purpose Code</b><br>Code identifying purpose of transaction set<br>00 Original<br>01 Cancellation   | M ID 2/2          |
| Required    | BSN02       | 396            | <b>Shipment Identification</b><br>A unique control number assigned by the original shipper to identify a specific shipment<br><i>Unique supplier assigned Shipment ID Number (SID) that is not repeated within a one-year period. This number will be the key identifying number for reconciliation of payments.</i> | M AN 2/30         |
| Required    | BSN03       | 373            | <b>Date</b><br>Date expressed as CCYYMMDD<br><i>Local ASN creation date.</i>   | M DT 8/8          |
| Required    | BSN04       | 337            | <b>Time</b><br>Time expressed in 24-hour clock time as follows: HHMM<br><i>Local ASN creation time.</i>  | M TM 4/8          |

**Segment:** **DTM** Date/Time Reference  
**Position:** 030  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**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.  
  
**Examples:** DTM\*011\*20030301\*1614\*ED~

**Data Element Summary**

| <u>ARM</u>  | <u>Ref.</u> | <u>Data</u>    |   |  | <u>Attributes</u> |
|-------------|-------------|----------------|---|--|-------------------|
| <u>Req.</u> | <u>Des.</u> | <u>Element</u> | <u>Name</u>   |  |                   |
| Required    | DTM01       | 374            | <b>Date/Time Qualifier</b><br>Code specifying type of date or time, or both date and time<br>011 Shipped  |  | M ID 3/3          |
| Required    | DTM02       | 373            | <b>Date</b><br>Date expressed as CCYYMMDD<br><i>The local shipment date.</i>  |  | X DT 8/8          |
| Required    | DTM03       | 337            | <b>Time</b><br>Time expressed in 24-hour clock time as follows: HHMM<br><i>The local shipment time.</i>   |  | X TM 4/8          |
| Required    | DTM04       | 623            | <b>Time Code</b><br>CD Central Daylight Time<br>CS Central Standard Time<br>CT Central Time<br>ED Eastern Daylight Time<br>ES Eastern Standard Time<br>ET Eastern Time<br>GM Greenwich Mean Time<br>MD Mountain Daylight Time<br>MS Mountain Standard Time<br>MT Mountain Time<br>PD Pacific Daylight Time<br>PS Pacific Standard Time<br>PT Pacific Time |  | O ID 2/2          |

**Segment:** **HL** Hierarchical Level  
**Position:** 010  
**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

- Semantic Notes:**
- 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.

**Examples:** HL\*1\*\*S~

**Data Element Summary**

| <u>ARM</u>  | <u>Ref.</u> | <u>Data</u>    | <u>Name</u>   | <u>Attributes</u> |
|-------------|-------------|----------------|---|-------------------|
| <u>Req.</u> | <u>Des.</u> | <u>Element</u> |   |                   |
| Required    | HL01        | 628            | <b>Hierarchical ID Number</b><br>A unique number assigned by the sender to identify a particular data segment in a hierarchical structure<br><i>"1" in the initial HL segment, incrementing by 1 each subsequent HL segment within the transaction.</i> | <b>M AN 1/12</b>  |
|             | HL02        | 734            | <b>Hierarchical Parent ID Number</b><br>Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to<br><i>Required except for Shipment level</i>   | <b>O AN 1/12</b>  |
| Required    | HL03        | 735            | <b>Hierarchical Level Code</b><br>Code defining the characteristic of a level in a hierarchical structure<br>S Shipment   | <b>M ID 1/2</b>   |

**Segment:** **MEA** Measurements  
**Position:** 020  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 40  
**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

**Semantic Notes:** 1 MEA04 defines the unit of measure for MEA03.

**Examples:** MEA\*PD\*G\*15000\*LB~  
 MEA\*PD\*N\*14000\*LB~

**Data Element Summary**

| <u>ARM</u>  | <u>Ref.</u> | <u>Data</u>    | <u>Name</u>   | <u>Attributes</u> |
|-------------|-------------|----------------|---|-------------------|
| <u>Req.</u> | <u>Des.</u> | <u>Element</u> |   |                   |
| Required    | MEA01       | 737            | <b>Measurement Reference ID Code</b><br>Code identifying the broad category to which a measurement applies<br>PD Physical Dimensions                                    | <b>O ID 2/2</b>   |
| Required    | MEA02       | 738            | <b>Measurement Qualifier</b><br>Code identifying a specific product or process characteristic to which a measurement applies<br>G Gross Weight<br>N Actual Net Weight   | <b>O ID 1/3</b>   |
| Required    | MEA03       | 739            | <b>Measurement Value</b><br>The value of the measurement  | <b>X R 1/20</b>   |
|             | MEA04       | C001           | <b>Composite Unit of Measure</b><br>To identify a composite unit of measure (See Figures Appendix for examples of use)  | <b>X</b>          |
| Required    | C00101      | 355            | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>LB Pound | <b>M ID 2/2</b>   |

**Segment:** **TD1** Carrier Details (Quantity and Weight)  
**Position:** 030  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**Purpose:** To specify the transportation details relative to commodity, weight, and quantity  
**Syntax Notes:** 1 If TD101 is present, then TD102 is required.

**Examples:** TD1\*BOX25\*12~  
 TD1\*PLT90\*3~

**Notes:** *Required by ArvinMeritor at the Shipment level to indicate the total number of higher level packages (pallets, skids, etc.) on the shipment.*

**Data Element Summary**

| <u>ARM</u>      | <u>Ref.</u>  | <u>Data</u>    | <u>Name</u>   | <u>Attributes</u> |
|-----------------|--------------|----------------|---|-------------------|
| <b>Req.</b>     | <b>Des.</b>  | <b>Element</b> | <b>Code</b>   |                   |
| <b>Required</b> | <b>TD101</b> | <b>103</b>     | <b>Packaging Code</b>   | <b>O AN 3/5</b>   |
|                 |              |                | Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required |                   |
|                 |              |                | BOX Box   |                   |
|                 |              |                | COL Coil  |                   |
|                 |              |                | CTN Carton  |                   |
|                 |              |                | MIX Mixed Container Types   |                   |
|                 |              |                | More than one type of container is included in a shipment (shipment could consist of 3 pieces that include 1 box, 1 crate, and 1 basket)                |                   |
|                 |              |                | PLT Pallet  |                   |
|                 |              |                | 25 Corrugated or Solid  |                   |
|                 |              |                | 52 Iron or Steel  |                   |
|                 |              |                | 70 Multiple-wall Paper (3 or more walls)  |                   |
|                 |              |                | 71 Not otherwise specified  |                   |
|                 |              |                | 90 Standard   |                   |
| <b>Required</b> | <b>TD102</b> | <b>80</b>      | <b>Lading Quantity</b>  | <b>X N0 1/7</b>   |
|                 |              |                | Number of units (pieces) of the lading commodity  |                   |

**Segment:** **TD5** Carrier Details (Routing Sequence/Transit Time)  
**Position:** 040  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify the carrier and sequence of routing and provide transit time information  
**Syntax Notes:** 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.  
 2 If TD502 is present, then TD503 is required.  
 3 If TD507 is present, then TD508 is required.

**Examples:** TD5\*B\*2\*RDWY\*M\*Roadway~  
 TD5\*B\*2\*BAXN\*AE\*BAX Global\*\*OR\*DTW~

Data Element Summary

| ARM         | Ref.        | Data           |  |                   |
|-------------|-------------|----------------|--|-------------------|
| <u>Req.</u> | <u>Des.</u> | <u>Element</u> | <u>Name</u>  | <u>Attributes</u> |
| Required    | TD501       | 133            | <b>Routing Sequence Code</b><br>Code describing the relationship of a carrier to a specific shipment movement<br>B Origin/Delivery Carrier (Any Mode)  | O ID 1/2          |
| Required    | TD502       | 66             | <b>Identification Code Qualifier</b><br>Code designating the system/method of code structure used for Identification Code (67)<br>2 Standard Carrier Alpha Code (SCAC)   | X ID 1/2          |
| Required    | TD503       | 67             | <b>Identification Code</b><br>Code identifying a party or other code<br><i>Valid, mutually agreed SCAC Code</i>  | X AN 2/80         |
| Required    | TD504       | 91             | <b>Transportation Method/Type Code</b><br>Code specifying the method or type of transportation for the shipment<br>A Air<br>AE Air Express<br>D Parcel Post<br>E Expedited Truck<br>LT Less Than Trailer Load (LTL)<br>M Motor (Common Carrier)<br>O Containerized Ocean<br>R Rail | X ID 1/2          |
|             | TD505       | 387            | <b>Routing</b><br>Free-form description of the routing or requested routing for shipment, or the originating carrier's identity<br><i>Carrier Text Name</i>  | X AN 1/35         |
|             | TD507       | 309            | <b>Location Qualifier</b><br>Code identifying type of location<br>OR Origin (Shipping Point)<br>PE Port of Entry (Port where customs is declared)<br>PP Pool Point   | O ID 1/2          |
|             | TD508       | 310            | <b>Location Identifier</b><br>Code which identifies a specific location<br><i>If TD507 = "PP" use pool point shown on Supplier Routing Instructions. If TD507 = "OR" use originating airport code from airbill.</i>  | X AN 1/30         |

**Segment:** **TD3** Carrier Details (Equipment)  
**Position:** 050  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify transportation details relating to the equipment used by the carrier  
**Syntax Notes:** 1 If TD302 is present, then TD303 is required.

**Examples:** TD3\*TL\*\*878787~  
 TD3\*RR\*\*32483243598~  
 TD3\*AF\*\*101~

Data Element Summary

| <u>ARM</u>  | <u>Ref.</u> | <u>Data</u>    | <u>Name</u>   | <u>Attributes</u> |
|-------------|-------------|----------------|---|-------------------|
| <u>Req.</u> | <u>Des.</u> | <u>Element</u> |   |                   |
| Required    | TD301       | 40             | <b>Equipment Description Code</b><br>Code identifying type of equipment used for shipment<br><i>Use any valid code from the ANSI X12 v4010 dictionary.</i>  | X ID 2/2          |
|             | TD302       | 206            | <b>Equipment Initial</b><br>Prefix or alphabetic part of an equipment unit's identifying number<br><i>Use alpha portion of the Equipment ID</i>   | O AN 1/4          |
| Required    | TD303       | 207            | <b>Equipment Number</b><br>Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)<br><i>Trailer number, Flight number, or Railcar number</i> | X AN 1/10         |

**Segment:** **REF** Reference Identification  
**Position:** 060  
**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.

**Examples:** REF\*CN\*230985302432823~  
 REF\*BM\*778899~  
 REF\*AW\*23890EW-23482~

**Notes:** *At least one REF segment is required for the Bill of Lading. If the shipment is via Air, then a REF\*AW is required. REF\*DK is required if the dock code is included in the 830 or 862 transaction.*

**Data Element Summary**

| <u>ARM</u><br><u>Req.</u><br>Required | <u>Ref.</u><br><u>Des.</u><br>REF01 | <u>Data</u><br><u>Element</u><br>128 | <u>Name</u><br>Reference Identification Qualifier  | <u>Attributes</u><br>M ID 2/3 |
|---------------------------------------|-------------------------------------|--------------------------------------|--|-------------------------------|
|                                       |                                     |                                      | Code qualifying the Reference Identification   |                               |
|                                       |                                     |                                      | AW Air Waybill Number  |                               |
|                                       |                                     |                                      | BM Bill of Lading Number   |                               |
|                                       |                                     |                                      | CN Carrier's Reference Number (PRO/Invoice)  |                               |
|                                       |                                     |                                      | DK Dock Number   |                               |
|                                       |                                     |                                      | FR Freight Bill Number   |                               |
|                                       |                                     |                                      | KB Beginning Kanban Serial Number  |                               |
|                                       |                                     |                                      | KE Ending Kanban Serial Number   |                               |
|                                       |                                     |                                      | MB Master Bill of Lading   |                               |
|                                       |                                     |                                      | SI Shipper's Identifying Number for Shipment (SID)   |                               |
|                                       |                                     |                                      | A unique number (to the shipper) assigned by the shipper to identify the shipment  |                               |
| Required                              | REF02                               | 127                                  | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | X AN 1/30                     |

**Segment:** **N1** Name  
**Position:** 070  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:** 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.

**Examples:** N1\*SF\*SCREWS-R-US\*92\*313131997~  
 N1\*ST\*ARM-Tilbury\*1\*207558495~  
 N1\*SU\*DANNY'S BOLTS\*ZZ\*V328328~

Data Element Summary

| <u>ARM</u><br><u>Req.</u><br><u>Required</u> | <u>Ref.</u><br><u>Des.</u><br><u>N101</u> | <u>Data</u><br><u>Element</u><br><u>98</u> | <u>Name</u><br><u>Entity Identifier Code</u>   | <u>Attributes</u><br><u>M ID 2/3</u> |
|--|---|--|--|--------------------------------------|
|  |   |  | Code identifying an organizational entity, a physical location, property or an individual<br>SF Ship From<br>ST Ship To<br>SU Supplier/Manufacturer  |                                      |
|  | <b>N102</b>                               | <b>93</b>                                  | <b>Name</b><br>Free-form name  | <b>X AN 1/60</b>                     |
| <b>Required</b>                              | <b>N103</b>                               | <b>66</b>                                  | <b>Identification Code Qualifier</b><br>Code designating the system/method of code structure used for Identification Code (67); use the code supplied in the 830 or 862 document.<br>1 D-U-N-S Number, Dun & Bradstreet<br>12 Telephone Number (Phone)<br>92 Assigned by Buyer or Buyer's Agent<br>ZZ Mutually Defined | <b>X ID 1/2</b>                      |
| <b>Required</b>                              | <b>N104</b>                               | <b>67</b>                                  | <b>Identification Code</b><br>Code identifying a party or other code; see Appendix X. for a list of ARM Ship-to codes.   | <b>X AN 2/80</b>                     |

**Segment:** **SAC** Service, Promotion, Allowance, or Charge Information  
**Position:** 140  
**Loop:** SAC Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge  
**Syntax Notes:** 1 At least one of SAC02 or SAC03 is required.  
 2 If either SAC03 or SAC04 is present, then the other is required.  
**Semantic Notes:** 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.  
 2 SAC05 is the total amount for the service, promotion, allowance, or charge.  
 If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.  
**Examples:** SAC\*C\*D240\*\*\*10217\*\*\*\*\*06~

Data Element Summary

| <u>ARM</u>  | <u>Ref.</u> | <u>Data</u>    | <u>Name</u>  | <u>Attributes</u> |
|-------------|-------------|----------------|--|-------------------|
| <u>Req.</u> | <u>Des.</u> | <u>Element</u> |  |                   |
| Required    | SAC01       | 248            | <b>Allowance or Charge Indicator</b><br>Code which indicates an allowance or charge for the service specified<br>A Allowance<br>C Charge<br>Q Charge Request<br>S Service  | <b>M ID 1/1</b>   |
| Required    | SAC02       | 1300           | <b>Service, Promotion, Allowance, or Charge Code</b><br>Code identifying the service, promotion, allowance, or charge<br>D240 Freight<br>H550 Surcharge<br>I260 Transportation Direct Billing<br>I500 Vendor Freight | <b>X ID 4/4</b>   |
| Required    | SAC05       | 610            | <b>Amount</b><br>Monetary amount   | <b>O N2 1/15</b>  |
| Required    | SAC12       | 331            | <b>Allowance or Charge Method of Handling Code</b><br>Code indicating method of handling for an allowance or charge<br>05 Charge to be Paid by Vendor<br>06 Charge to be Paid by Customer<br>ZZ Mutually Defined     | <b>O ID 2/2</b>   |

**Segment:** **HL** Hierarchical Level  
**Position:** 160  
**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

- Semantic Notes:**
- 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.

**Examples:** HL\*2\*1\*I~

**Data Element Summary**

| <u>ARM</u><br><u>Req.</u> | <u>Ref.</u><br><u>Des.</u> | <u>Data</u><br><u>Element</u> | <u>Name</u>   | <u>Attributes</u> |
|---------------------------|----------------------------|-------------------------------|---|-------------------|
| Required                  | HL01                       | 628                           | <b>Hierarchical ID Number</b><br>A unique number assigned by the sender to identify a particular data segment in a hierarchical structure<br><i>"2" in the initial HL segment, incrementing by 1 each subsequent HL segment within the transaction.</i> | <b>M AN 1/12</b>  |
| Required                  | HL02                       | 734                           | <b>Hierarchical Parent ID Number</b><br>Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to<br><i>Required at Item level</i>   | <b>O AN 1/12</b>  |
| Required                  | HL03                       | 735                           | <b>Hierarchical Level Code</b><br>Code defining the characteristic of a level in a hierarchical structure<br>I Item   | <b>M ID 1/2</b>   |

**Segment:** **LIN** Item Identification  
**Position:** 170  
**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.  
**Examples:** LIN\*\*BP\*243823-AOP\*EC\*D~  
 LIN\*\*BP\*773245AH\*RC\*1001001~

**Notes:** LIN03 must contain the ArvinMeritor part number. Vendor part number, Engineering Change Level, or Returnable Container Code, may occur in LIN04/05, LIN06/07, or LIN08/09.

Data Element Summary

| ARM Req. Required | Ref. Des. LIN02 | Data Element 235 | Name Product/Service ID Qualifier  | Attributes M ID 2/2 |
|-------------------|-----------------|------------------|--|---------------------|
|                   |                 |                  | Code identifying the type/source of the descriptive number used in Product/Service ID (234)<br>BP Buyer's Part Number  |                     |
| Required          | LIN03           | 234              | Product/Service ID   | M AN 1/48           |
|                   |                 |                  | Identifying number for a product or service<br><i>ArvinMeritor part number.</i>  |                     |
|                   | LIN04           | 235              | Product/Service ID Qualifier   | X ID 2/2            |
|                   |                 |                  | Code identifying the type/source of the descriptive number used in Product/Service ID (234)<br>EC Engineering Change Level<br>RC Returnable Container Number<br>VP Vendor's (Seller's) Part Number                                   |                     |
|                   | LIN05           | 234              | Product/Service ID   | X AN 1/48           |
|                   |                 |                  | Identifying number for a product or service<br><i>If LIN04 = "VP", then this is the Vendor part number. If LIN04 = "EC", then this is the engineering change level. If LIN04 = "RC", then this is the Returnable Container Code.</i> |                     |
|                   | LIN06           | 235              | Product/Service ID Qualifier   | X ID 2/2            |
|                   |                 |                  | Code identifying the type/source of the descriptive number used in Product/Service ID (234)  |                     |
|                   | LIN07           | 234              | Product/Service ID   | X AN 1/48           |
|                   |                 |                  | Identifying number for a product or service<br><i>If LIN06 = "VP", then this is the Vendor part number. If LIN06 = "EC", then this is the engineering change level. If LIN06 = "RC", then this is the Returnable Container Code.</i> |                     |
|                   | LIN08           | 235              | Product/Service ID Qualifier   | X ID 2/2            |
|                   |                 |                  | Code identifying the type/source of the descriptive number used in Product/Service ID (234)  |                     |
|                   | LIN09           | 234              | Product/Service ID   | X AN 1/48           |
|                   |                 |                  | Identifying number for a product or service<br><i>If LIN08 = "VP", then this is the Vendor part number. If LIN08 = "EC", then this is the engineering change level. If LIN08 = "RC", then this is the Returnable Container Code.</i> |                     |

**Segment:** **SN1** Item Detail (Shipment)  
**Position:** 180  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify line-item detail relative to shipment  
  
**Examples:** SN1\*\*12\*EA\*5638~  
 SN1\*\*436\*LB~

Data Element Summary

| <u>ARM</u>              | <u>Ref.</u>  | <u>Data</u> | <u>Name</u>  | <u>Attributes</u> |
|-------------------------|--------------|-------------|--|-------------------|
| <b>Req.</b><br>Required | <b>SN102</b> | <b>382</b>  | <b>Number of Units Shipped</b><br>Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set<br><i>Number of parts (quantity shipped) for the Buyer's Part indicated in the LIN segment.</i>         | <b>M R 1/10</b>   |
| <b>Required</b>         | <b>SN103</b> | <b>355</b>  | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br><i>Refer to the part unit of measure on your ArvinMeritor Purchase Order.</i> | <b>M ID 2/2</b>   |
|                         | <b>SN104</b> | <b>646</b>  | <b>Quantity Shipped to Date</b><br>Number of units shipped to date<br><i>YTD cumulative for current model year.</i>  | <b>O R 1/15</b>   |

**Segment:** **PRF** Purchase Order Reference  
**Position:** 200  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To provide reference to a specific purchase order

**Semantic Notes:** 1 PRF04 is the date assigned by the purchaser to purchase order.

**Examples:** PRF\*V919304\*\*\*20020131~  
 PRF\*G4514-0988\*\*\*20030131\*009~

**Data Element Summary**

| <u>ARM</u>  | <u>Ref.</u> | <u>Data</u>    | <u>Name</u>  | <u>Attributes</u> |
|-------------|-------------|----------------|--|-------------------|
| <u>Req.</u> | <u>Des.</u> | <u>Element</u> |  |                   |
| Required    | PRF01       | 324            | <b>Purchase Order Number</b><br>Identifying number for Purchase Order assigned by the orderer/purchaser<br><i>ArvinMeritor PO number including amendments.</i> | M AN 1/22         |
|             | PRF04       | 373            | <b>Date</b><br>Date expressed as CCYYMMDD<br><i>ArvinMeritor PO Date.</i>  | O DT 8/8          |
|             | PRF05       | 350            | <b>Assigned Identification</b><br>Alphanumeric characters assigned for differentiation within a transaction set<br><i>PO Line Number</i>                       | O AN 1/20         |

**Segment:** **CLD** Load Detail  
**Position:** 380  
**Loop:** CLD Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the number of material loads shipped  
**Syntax Notes:** 1 If CLD05 is present, then CLD04 is required.  
**Semantic Notes:** 1 CLD05 is used to dimension the value given in CLD04.

**Examples:** CLD\*4\*3\*BOX25~  
 CLD\*8\*100\*BOX25\*25\*EA~

Data Element Summary

| ARM         | Ref.        | Data           |   |                         |                   |
|-------------|-------------|----------------|---|-------------------------|-------------------|
| <u>Req.</u> | <u>Des.</u> | <u>Element</u> | <u>Name</u>   |                         | <u>Attributes</u> |
| Required    | CLD01       | 622            | <b>Number of Loads</b>  |                         | M N0 1/5          |
|             |             |                | Number of customer-defined loads shipped by the supplier  |                         |                   |
|             |             |                | <i>Number of Containers</i>   |                         |                   |
| Required    | CLD02       | 382            | <b>Number of Units Shipped</b>  |                         | M R 1/10          |
|             |             |                | Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set  |                         |                   |
|             |             |                | <i>Total number of units in container.</i>  |                         |                   |
| Required    | CLD03       | 103            | <b>Packaging Code</b>   |                         | O AN 3/5          |
|             |             |                | Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required |                         |                   |
|             |             |                | BOX   | Box                     |                   |
|             |             |                | COL   | Coil                    |                   |
|             |             |                | CRT   | Crate                   |                   |
|             |             |                | CTN   | Carton                  |                   |
|             |             |                | LSE   | Loose                   |                   |
|             |             |                | PLT   | Pallet                  |                   |
|             |             |                | SKD   | Skid                    |                   |
|             |             |                | 25  | Corrugated or Solid     |                   |
|             |             |                | 52  | Iron or Steel           |                   |
|             |             |                | 71  | Not Otherwise Specified |                   |
|             |             |                | 90  | Standard                |                   |
| Required    | CLD04       | 357            | <b>Size</b>   |                         | X R 1/8           |
|             |             |                | Size of supplier units in pack  |                         |                   |
|             |             |                | <i>Subpack quantity.</i>  |                         |                   |
| Required    | CLD05       | 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  |                         |                   |
|             |             |                | <i>UOM for subpack quantity. Use the same unit of measure as the SNI.</i>   |                         |                   |

**Segment:** **REF** Reference Identification  
**Position:** 390  
**Loop:** CLD Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 200  
**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.

**Examples:** REF\*PK\*161188~  
 REF\*DK\*G17~  
 REF\*KB\*1231234~  
 REF\*KE\*1231248~

**Notes:** *At least one REF segment with a "PK" qualifier (Packing Slip Number) is required at this level.*

**Data Element Summary**

| <u>ARM</u>              | <u>Ref.</u>          | <u>Data</u>           | <u>Name</u>  | <u>Attributes</u> |
|-------------------------|----------------------|-----------------------|--|-------------------|
| <b>Req.</b><br>Required | <b>Des.</b><br>REF01 | <b>Element</b><br>128 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>DK Dock Number<br>HC Heat Code<br>KB Beginning Kanban Serial Number<br>KE Ending Kanban Serial Number<br>LA Shipping Label Serial Number<br>LS Bar-Coded Serial Number<br>LT Lot Number<br>PK Packing List Number<br>SE Serial Number | <b>M ID 2/3</b>   |
| <b>Required</b>         | <b>REF02</b>         | <b>127</b>            | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier   | <b>X AN 1/30</b>  |

**Segment:** **CTT** Transaction Totals  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To transmit a hash total for a specific element in the transaction set

**Semantic Notes:** 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

**Examples:** CTT\*7\*56238~

Data Element Summary

| <u>ARM</u>  | <u>Ref.</u> | <u>Data</u>    | <u>Name</u>   | <u>Attributes</u> |
|-------------|-------------|----------------|---|-------------------|
| <u>Req.</u> | <u>Des.</u> | <u>Element</u> |   |                   |
| Required    | CTT01       | 354            | <b>Number of Line Items</b><br>Total number of line items in the transaction set<br><i>Total number of HL loops in transaction.</i> | <b>M N0 1/6</b>   |
|             | CTT02       | 347            | <b>Hash Total</b><br><i>Total number of parts in ASN</i>  | <b>O R 1/10</b>   |

**Segment:** **SE** Transaction Set Trailer  
**Position:** 020  
**Loop:**  
**Level:** Summary  
**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)  
**Examples:** SE\*123\*12341~

Data Element Summary

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