Nissan North America
Manufacturing EDI
Implementation Guide

MFG856R
Advance Shipping Notice (Manufacturing)
ANSI X-12 Version 2001

Revised on Oct 8, 2007

856 Ship Notice/Manifest

Functional Group ID=SH

Introduction:

This Standard contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Notes:

Key Point:
Nissan has several styles of part ordering systems. This guidelines applies to the following:

Normal RAN Style shipments - applies to most parts RAN (Receipt Authorization Number)
SEQUENCE Style shipments - no RAN's only PDSN's (Part Delivery Sequence Number)
CPICS Style shipments - only applies to the shipments of steel coils

If you are unclear on which style applies, please contact your Nissan SCM Parts Ordering Analyst

ANSI version 2001
Use with Nissan ENVELOPE guideline

Nissan Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BSN	Beginning Segment for Ship Notice	M	1		
Must Use	040	DTM	Date/Time/Period	O	10		
			LOOP ID - HL			1	
M	050	HL	Hierarchical Level - Shipment Level	M	1		
	130	MEA	Measurements	O	1		
Must Use	160	TD1	Carrier Details (Quantity and Weight)	O	1		
Must Use	180	TD3	Carrier Details (Equipment)	O	1		
Must Use	200	REF	Reference Numbers	O	2		

			LOOP ID - N1			200
Must Use	270	N1	Name -Supplier	O	1	
			LOOP ID - HL			199999
	050	HL	Hierarchical Level - Tare Level	O	1	
Must Use	200	REF	Reference Numbers	O	200	
			LOOP ID - HL			199999
Must Use	050	HL	Hierarchical Level - Item Level	O	1	
Must Use	060	LIN	Item Identification	O	1	
Must Use	080	SN1	Item Detail (Shipment)	O	1	
	110	PO4	Item Physical Details	O	1	
	200	REF	Reference Numbers	C	200	
			LOOP ID - HL			199999
	050	HL	Hierarchical Level -Pack Level	O	1	
	080	SN1	Item Detail (Shipment)	O	1	
	200	REF	Reference Numbers	O	200	
M	380	CTT	Transaction Totals	M	1	
M	390	SE	Transaction Set Trailer	M	1	

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Notes: **Sample Data**
ST*856*0001

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code**	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number**	**M AN 4/9**
			Key Point: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. Must match the number in SE02. '0001' through '999999999'	

Segment: **BSN** **Beginning Segment for Ship Notice**
Position: 020
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes:
Notes: **Sample Data**
BSN*00*02*070101*1200

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**BSN01**	**353**	**Transaction Set Purpose Code** **Key Point:** Nissan applicaion sytems only process '00' purpose codes. 00 Original	**M ID 2/2**
M	**BSN02**	**396**	**Shipment Identification**	**M AN 2/30**
M	**BSN03**	**729**	**Category - Ship Notice Date** **Key Point:** 'YYMMDD'	**M DT 6/6**
	BSN04	**730**	**Subcategory - Ship Notice Time** **Key Point:** 'HHMM'	**O TM 4/4**

Segment: **DTM** **Date/Time/Period**
Position: 040
Loop:
Level:
Usage: Optional (Must Use)
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 or DTM03 is required.
Notes: **Sample Data**
DTM*011*070105*1430

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier**	**M ID 3/3**
			011 Shipped	
M	**DTM02**	**373**	**Date - Ship Date**	**C DT 6/6**
			Key Point:	
			(YYMMDD)	
	DTM03	**337**	**Time - Ship Time**	**C TM 4/4**
			Key Point:	
			(HHMM)	

Segment: **HL** **Hierarchical Level - Shipment Level**
Position: 050
Loop: HL Mandatory
Level:
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Notes: **Key Point**
The shipment level contains header type data about the entrire shipment (e.g. BOL , trailer number,scac code)
Sample Data
HL*1**S

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**HL01**	**628**	**Hierarchical ID Number** **Key Point:** Always '1' at this level.	**M AN 1/12**
M	**HL03**	**735**	**Hierarchical Level Code** **Key Point:** Hierarchical Level Code is always 'S' for shipment level. S Shipment	**O ID 1/1**

Segment: **MEA** **Measurements**
Position: 130
Loop: HL Mandatory
Level:
Usage: Optional
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights
Syntax Notes:
Notes: **Key Point**
For Normal RAN Style and CPICS Style shipments this segment is required.
For SEQUENCE Style shipments this segment is not required.
Sample Data
MEA*PD*G*1200*LB*0*0

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**MEA01**	**737**	**Measurement Reference ID Code**	**M ID 2/2**
			PD Physical Dimensions	
M	**MEA02**	**738**	**Measurement Qualifier**	**M ID 1/3**
			G Gross Weight	
	MEA03	**739**	**Measurement Value - Gross Weight**	**C R 1/9**
			Key Point:	
			Must always be expressed in pounds.	
M	**MEA04**	**355**	**Unit or Basis for Measurement Code**	**M ID 2/2**
			LB Pound	
	MEA05	**740**	**Range Minimum**	**C R 1/1**
			Key Point:	
			Must always be '0'.	
	MEA06	**741**	**Range Maximum**	**C R 1/1**
			Key Point:	
			Must always be '0'.	

Segment: **TD1** **Carrier Details (Quantity and Weight)**
Position: 160
Loop: HL Mandatory
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:
1 If TD101 is present, then TD102 is required.
2 If TD103 is present, then TD104 is required.
3 If TD106 is present, then both TD107 and TD108 are required.
Notes: **Sample Data**
TD1*CNT79*128

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**TD101**	**103**	**Packaging Code** **Key Point:** Any valid AIAG code.	**O ID 1/5**
M	**TD102**	**80**	**Lading Quantity** **Key Point:** Number of bundles/pallets in the shipment.	**C N0 1/3**

Segment: **TD3** **Carrier Details (Equipment)**
Position: 180
Loop: HL Mandatory
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify transportation details relating to the equipment used by the carrier
Syntax Notes: **1** If TD302 is present, then TD303 is required.
2 If TD304 is present, then both TD305 and TD306 are required.
Notes: **Key Point**
Nissan requires SCAC and Trailer Number if shipped by truck.
Sample Data
TD3*PT*YSAA*3995484

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**TD301**	**40**	**Equipment Description Code** Refer to 002001 Data Element Dictionary for acceptable code values.	**M ID 2/2**
M	**TD302**	**206**	**Equipment Initial - SCAC code**	**O AN 1/4**
M	**TD303**	**207**	**Equipment Number - Trailer Number** **Key Point:** Suppliers that ship through a consolidation point must use the pro# in equipment number field on the TD303 segment. If the pro# is too long for the equipment number field you can put the pro# in the Bill of Lading field on the REF*BM segment and the Bill of Lading in the equipment number field.	**C AN 1/10**

Segment: **REF** **Reference Numbers**
Position: 200
Loop: HL Mandatory
Level:
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify identifying numbers.
Syntax Notes: **1** At least one of REF02 or REF03 is required.
Notes: **Key Point**

For Normal RAN Style and CPICS Style shipments Nissan requires BOL and/or Packing Slip Number .

For SEQUENCE Style shipments BOL is always required.

Sample Data

REF*BM*BM3930
REF*BM*BM3930-2100

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name		Attributes
M	**REF01**	**128**	**Reference Number Qualifier**		**M ID 2/2**
			BM	Bill of Lading Number	
			PK	Packing List Number	
M	**REF02**	**127**	**Reference Number - Bill Of Lading Number**		**C AN 1/15**
			Key Point: For Summary Receipt type of supplier - the planned receipt time must be (HHMM) appended to the BOL number		

Segment: **N1** **Name -Supplier**
Position: 270
Loop: N1 Optional (Must Use)
Level:
Usage: Optional (Must Use)
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.
Notes: **Sample Data**
N1*SU*SUPPLIER NAME*92*1234567

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name		Attributes	
M	**N101**	**98**	**Entity Identifier Code**		**M**	**ID 2/2**
			SU	Supplier/Manufacturer		
M	**N102**	**93**	**Name - Supplier Name**		**C**	**AN 1/35**
M	**N103**	**66**	**Identification Code Qualifier**		**C**	**ID 1/2**
			92	Assigned by Buyer or Buyer's Agent		
M	**N104**	**67**	**Identification Code - Supplier Code**		**C**	**AN 2/10**

Segment: **HL** **Hierarchical Level - Tare Level**
Position: 050
Loop: HL Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Notes: **Key Point**

The tare level contains data about a pallet which holds many smaller packages (e.g master/mixed serial number) or can be used for providing complete details of very large containers which are a pallet footprint on the truck.

Tare level is not required for SEQUENCE Style shipments.

Sample Data

HL*2*1*T

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**HL01**	**628**	**Hierarchical ID Number** **Key Point:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.	**M AN 1/12**
M	**HL02**	**734**	**Hierarchical Parent ID Number** **Key Point:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.	**O AN 1/12**
M	**HL03**	**735**	**Hierarchical Level Code** T Shipping Tare	**O ID 1/1**
	HL04	**736**	**Hierarchical Child Code** **Key Point:** Code indicating whether if there are hierarchical child data segments subordinate to the level being described. 0 No Subordinate HL Segment in This Hierarchical Structure. 1 Additional Subordinate HL Data Segment in This Hierarchical Structure.	**O ID 1/1**

Segment: **REF** **Reference Numbers**
Position: 200
Loop: HL Optional
Level:
Usage: Optional (Must Use)
Max Use: 200
Purpose: To specify identifying numbers.
Syntax Notes: **1** At least one of REF02 or REF03 is required.
Notes: **Sample Data**
REF*LS*M1234567
REF*LS*G3456789
REF*LS*4S12345678 - Master Load Label
REF*LS*5S12345678 - Mixed Load Label

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Number Qualifier** LS Bar-Coded Serial Number	**M ID 2/2**
M	**REF02**	**127**	**Reference Number - Mixed or Master Label Serial Number** **Key Point:** According to AIAG and Nissan guidelines all barcodes on lables must be prefixed with a data identifier as defined in those guidelines. Nissan requires that the data identifiers be transmitted along with the label serial numbers. At the tare level allowable data identifiers are: '4S', '5S', 'M', 'G' , 'S'.	**C AN 2/10**

Segment: **HL** **Hierarchical Level - Item Level**
Position: 050
Loop: HL Optional (Must Use)
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Notes: **Key Point**
The item level contains data about a package which holds many smaller packs or can be used for providing complete details of an indvidual package of parts.
Sample Data
HL*3*2*I*1

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**HL01**	**628**	**Hierarchical ID Number** **Key Point:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.	**M AN 1/12**
M	**HL02**	**734**	**Hierarchical Parent ID Number** **Key Point:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.	**O AN 1/12**
M	**HL03**	**735**	**Hierarchical Level Code** I Item	**O ID 1/1**
	HL04	**736**	**Hierarchical Child Code** **Key Point:** Code indicating whether if there are hierarchical child data segments subordinate to the level being described. Pack level is not valid for Sequence Style shipments, so for SEQUENCE Style shipments this code will always be '0' 0 No Subordinate HL Segment in This Hierarchical Structure. 1 Additional Subordinate HL Data Segment in This Hierarchical Structure.	**O ID 1/1**

Segment: **LIN** **Item Identification**
Position: 060
Loop: HL Optional (Must Use)
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
1 If LIN04 is present, then LIN05 is required.
2 If LIN06 is present, then LIN07 is required.
3 If LIN08 is present, then LIN09 is required.
4 If LIN10 is present, then LIN11 is required.
5 If LIN12 is present, then LIN13 is required.
6 If LIN14 is present, then LIN15 is required.
7 If LIN16 is present, then LIN17 is required.
8 If LIN18 is present, then LIN19 is required.
9 If LIN20 is present, then LIN21 is required.
10 If LIN22 is present, then LIN23 is required.
11 If LIN24 is present, then LIN25 is required.
12 If LIN26 is present, then LIN27 is required.
13 If LIN28 is present, then LIN29 is required.
14 If LIN30 is present, then LIN31 is required.

Notes: **Key Point**

Nissan has several styles of part ordering systems. This guidelines applies to the following:

Normal RAN Style shipments - applies to most parts
SEQUENCE Style shipments - no RAN's only PDSN's (Part Delivery Sequence Number)
CPICS Style shipments - only applies to the shipments of steel coils

If you are unclear on which style applies, please contact your Nissan SCM Parts Ordering Analyst

Sample Data

RAN Style: LIN**BP*23104982G00*ON*RH34789
SEQUENCE Style: LIN**BP*20512 B0001*ON*SPF1000001SPF1000061
CPICS Style: LIN**BP*23104982G00*ON*RH34789*SN*567834

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name		Attributes	
M	**LIN02**	**235**	**Product/Service ID Qualifier**		**M**	**ID 2/2**
			BP	Buyer's Part Number		
M	**LIN03**	**234**	**Product/Service ID - Nissan Part Number**		**M**	**AN 1/19**
M	**LIN04**	**235**	**Product/Service ID Qualifier**		**O**	**ID 2/2**
			ON	Customer Order Number		
M	**LIN05**	**234**	**Product/Service ID - Receipt Authorization Number**		**C**	**AN 7/20**

		(RAN) **Key Point:** For RAN Style shipments LIN05 must be populated with the RAN number with a max length of 8 positions. For SEQUENCE Style shipments LIN05 must be populated with the beginning and ending PDSN numbers on this shipment with a max length of 20 positions		
LIN06	**235**	**Product/Service ID Qualifier** **Key Point:** Only used for steel coils. SN Serial Number	**O**	**ID 2/2**
LIN07	**234**	**Product/Service ID - Coil Number** **Key Point:** Only used for steel coils.	**C**	**AN 1/10**

Segment: **SN1** **Item Detail (Shipment)**
Position: 080
Loop: HL Optional (Must Use)
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: **1** If SN105 is present, then SN106 is required.
Notes: **Sample Data**
SN1**1000*PC

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**SN102**	**382**	**Number of Units Shipped**	**M R 1/7**
M	**SN103**	**355**	**Unit or Basis for Measurement Code** **Key Point:** Any valid AIAG code	**M ID 2/2**

Segment: **PO4** **Item Physical Details**
Position: 110
Loop: HL Optional (Must Use)
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:
1 If PO402 is present, then PO403 is required.
2 If PO406 is present, then both PO407 and PO408 are required.
3 If PO410 is present, then PO411 is required.
4 If PO413 is present, then PO416 is required.
5 If PO414 is present, then PO416 is required.
6 If PO415 is present, then PO416 is required.

Notes: **Key Point**
Number of inner pack units multiplied by quantity per pack must equal number of units shipped on the SN1 segment.
Unit of Measurement Code on PO4 segment must be the same as an SN1 segment.

For Normal RAN Style and CPICS Style shipments this segment is optional.
For SEQUENCE Style shipments this segment is not required.

Sample Data
PO4*4*250*PC

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**PO401**	**356**	**Pack** **Key Point:** Number of inner pack units per outer pack unit (SNEP)	**O N0 1/6**
M	**PO402**	**357**	**Size** **Key Point:** Size of supplier units in pack.	**O R 1/8**
M	**PO403**	**355**	**Unit or Basis for Measurement Code** **Key Point:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Refer to 002001 Data Element Dictionary for acceptable code values.	**C ID 2/2**

Segment: **REF** **Reference Numbers**
Position: 200
Loop: HL Optional (Must Use)
Level:
Usage: Conditional
Max Use: 200
Purpose: To specify identifying numbers.
Syntax Notes: **1** At least one of REF02 or REF03 is required.
Notes: **Key Point**

For Normal RAN Style and CPICS Style shipments this segment is optional.
For SEQUENCE Style shipments this segment is not required.

Sample Data

REF*LS*S3456789

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name		Attributes
M	**REF01**	**128**	**Reference Number Qualifier**		**M ID 2/2**
			LS	Bar-Coded Serial Number	
	REF02	**127**	**Reference Number - Label Serial Number.**		**C AN 2/10**

Segment: **HL** **Hierarchical Level -Pack Level**
Position: 050
Loop: HL Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Notes: **Key Point**
The pack level is for providing complete details of an indvidual pack of parts.

For Normal RAN Style and CPICS Style shipments this loop is optional.
For SEQUENCE Style shipments this segment is not required.

Sample Data
HL*4*3*P*0

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes	
M	**HL01**	**628**	**Hierarchical ID Number** **Key Point:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.	**M**	**AN 1/12**
M	**HL02**	**734**	**Hierarchical Parent ID Number** **Key Point:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.	**O**	**AN 1/12**
M	**HL03**	**735**	**Hierarchical Level Code** P Pack	**O**	**ID 1/1**
	HL04	**736**	**Hierarchical Child Code** **Key Point:** Always '0'. No Subordinate HL Segment in This Hierarchical Structure.	**O**	**ID 1/1**

Segment: **SN1** **Item Detail (Shipment)**
Position: 080
Loop: HL Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: **1** If SN105 is present, then SN106 is required.
Notes: **Sample Data**
SN1**1000*PC

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**SN102**	**382**	**Number of Units Shipped** **Key Point:** Number of units in inner pack (SNIP)	**M R 1/7**
M	**SN103**	**355**	**Unit or Basis for Measurement Code** **Key Point:** Any vaild AIAG code Refer to 002001 Data Element Dictionary for acceptable code values.	**M ID 2/2**

Segment: **REF** **Reference Numbers**
Position: 200
Loop: HL Optional
Level:
Usage: Optional
Max Use: 200
Purpose: To specify identifying numbers.
Syntax Notes: **1** At least one of REF02 or REF03 is required.
Notes: **Sample Data**
REF*LS*S1234567

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Number Qualifier**	**M ID 2/2**
			LS Bar-Coded Serial Number	
	REF02	**127**	**Reference Number - Label Serial Number.**	**C AN 2/10**

Segment: **CTT** **Transaction Totals**
Position: 380
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: **1** If CTT03 is present, then CTT04 is required.
2 If CTT05 is present, then CTT06 is required.
Notes: **Key Point**
The CTT segment contains control transaction totals relative to the data between ST and SE.
Sample Data
CTT*3*259

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**CTT01**	**354**	**Number of Line Items** **Key Point:** The total number of HL segments in this transaction (between ST and SE).	**M N0 1/4**
M	**CTT02**	**347**	**Hash Total** **Key Point:** Hash Total is the sum of values in the item level SN102. All values will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. See Appendix A.	**O R 1/10**

Segment: **SE** **Transaction Set Trailer**
Position: 390
Loop:
Level:
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).
Syntax Notes:
Notes: **Sample Data**
SE*42*0001

Data Element Summary

User Attribute	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** **Key Point:** Total number of segments included in a transaction set including ST and SE segments.	**M N0 1/6**
M	**SE02**	**329**	**Transaction Set Control Number** **Key Point:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. Must match the number in ST02. '0001' through '999999999'	**M AN 4/9**