Section 3
<Labeling and Shipping>

Purpose: Ensure incoming material is labeled properly with the correct part number and traceability to manufacturing.

Note: Product received with incorrect part number on the label causes considerable issues for our manufacturing lines and in many cases DENSO's OEM customers.

DENSO

DENSO International America, Inc. and related subsidiaries

DAMAGED PACKAGING REPORT

Definitions……...3-1

Supplier Labeling Policy……3-2

Level 1 Manufacturing Line Side Labeling Electronic Verification……..3-3

Level 2 Manufacturing Line Side Labeling Manual Verification……..3-4

Level 3 Warehouse Labeling Electronic Confirmation……...3-8

Level 4 Warehouse Labeling Manual Confirmation……3-12

Repack Minimum Standards……3-16

Supplier Label Requirements & QR Code Spec……3-17

Label Specification……3-18

NPI Label Specification……3-19

Delivery Order……3-20

Ordering Process Key Points……..3-24

Mixed Load Label……3-25

Correct Kanban Placement……..3-27

Reeled Parts……3-28

Damaged Packaging Report……3-29

Empty Packaging Report……..3-32

Advanced Shipping Notice-Sending……..3-33

Advanced Shipping Notice-Status……..3-34

Advanced Shipping Notice-Cancelling……..3-35

Advanced Shipping Notice-Receiving Discrepancies…..……..3-36

1.0 Definitions

Definitions:

Manufacturing Line Side Labeling – Process of apply DENSO Shipping Label to product at manufacturing line. This is preferred area to apply shipping label.

Warehouse Labeling: Process of apply DENSO Shipping Label in warehouse.

Manufacturing Electronic Confirmation: Process of using Computer program to validate that parts made in manufacturing match shipping tag.

Warehouse Electronic Confirmation: Process of using computer program to validate Supplier Label matches DENSO Label through scan confirmation.

Program Control Logic(PLC): Manufacturing Computer program used to confirm parts match shipping label and automatic print DENSO Shipping Label.

NASWEB: DENSO Order Website for supplier to receive Purchase Orders, Label Formats, and send ASN(Advance Shipping Notices).

Inspection Manuals: Manual to confirm key quality check points for product quality inspection.

Management Layered Audits: Standard Audit system designed to ensure by several different levels of management that standardize processes are being followed.

2.0 Supplier Labeling Policy Summary

Requirement: Each Supplier must pick a Labeling Level and maintain the requirement for that level. **In the event the Supplier cannot manage the labeling correctly DENSO will require the supplier to move up a level**.

<Supplier Labeling Levels>

Level	Description	Details
1 ★ = DENSO Preferred Level	**Manufacturing Line Side Labeling (Electronic Confirmation)**	Manufacturing PLC(program logic control) electronically verifies correct part # & Quantity which triggers DENSO label printing (one for one)
2	**Manufacturing Line Side Labeling (Manual Confirmation)**	DENSO Label is applied at the end of the production line with a double check.
3	**Warehouse Labeling (Electronic Confirmation)**	Scanning Confirmation between Supplier label and DENSO Label.
4 * = DENSO Minimum Level	**Warehouse Labeling (Manual Confirmation)**	Manual confirmation of Supplier and DENSO Label.

<Overall Summary for Each Level>

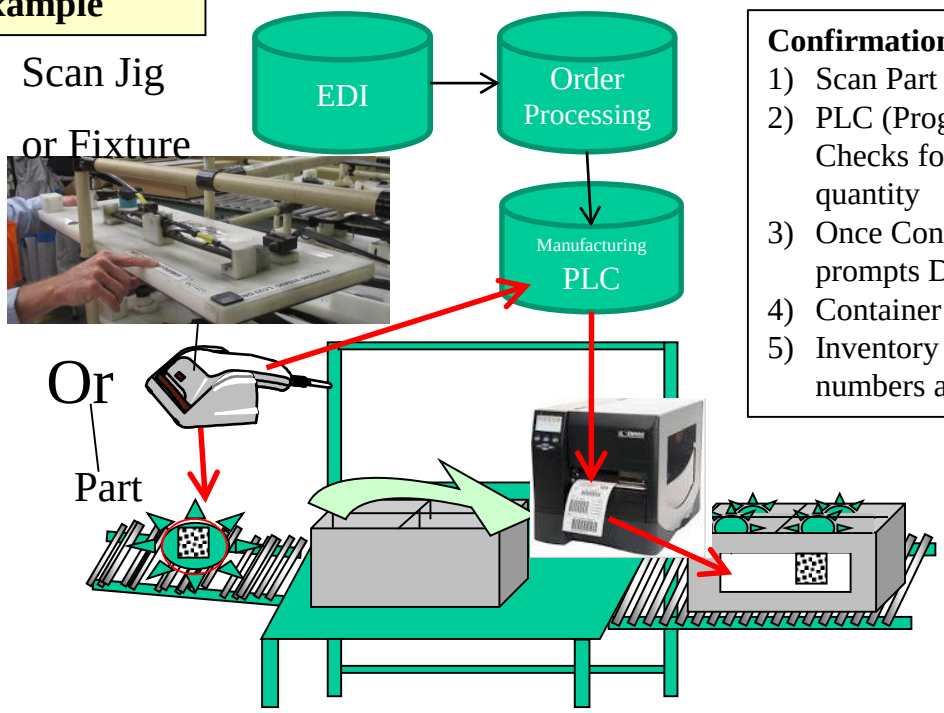
Legend		Manufacturing Labeling		Warehouse Labeling	
Requirements O = Required, - = Not Required		**Level 1** Electronic	**Level 2** Manual	**Level 3** Electronic	**Level 4** Manual
Manufacturing	Label Generation and Control	O	O	-	-
	Start-up & Changeover Control	-	O	O	O
	Production Packing Log	-	O	O	O
	Quality Inspection- Part Matches Label	-	O	O	O
WH	Label Apply Process	NA	NA	O Electronic	O Manual
	Quality Inspection – Part Matches Label	NA	NA	O	O
MG MT	Management Layered Process	-	O	O	O

Level 1: **Manufacturing Line Side Labeling (Electronic Confirmation)**

= DENSO Preferred Level

3.1 Level 1 Manufacturing Line Side Labeling Electronic Verification

Example



Confirmation Steps:

1) Scan Part Serial Number in PLC.
2) PLC (Program Logic Control) Checks for Correct part # and quantity
3) Once Container is full PLC prompts DENSO label to print.
4) Container is labeled.
5) Inventory is updated and serial numbers are recorded

DENSO Label

From DENSO Label Spec

Benefits of Scanning of part label to generate shipping Label

1. Eliminates need for pre-printed labels and relabeling at shipping.
2. Shipping label is generated only after system confirms correct quantity and part #.

Level 1 Requirements

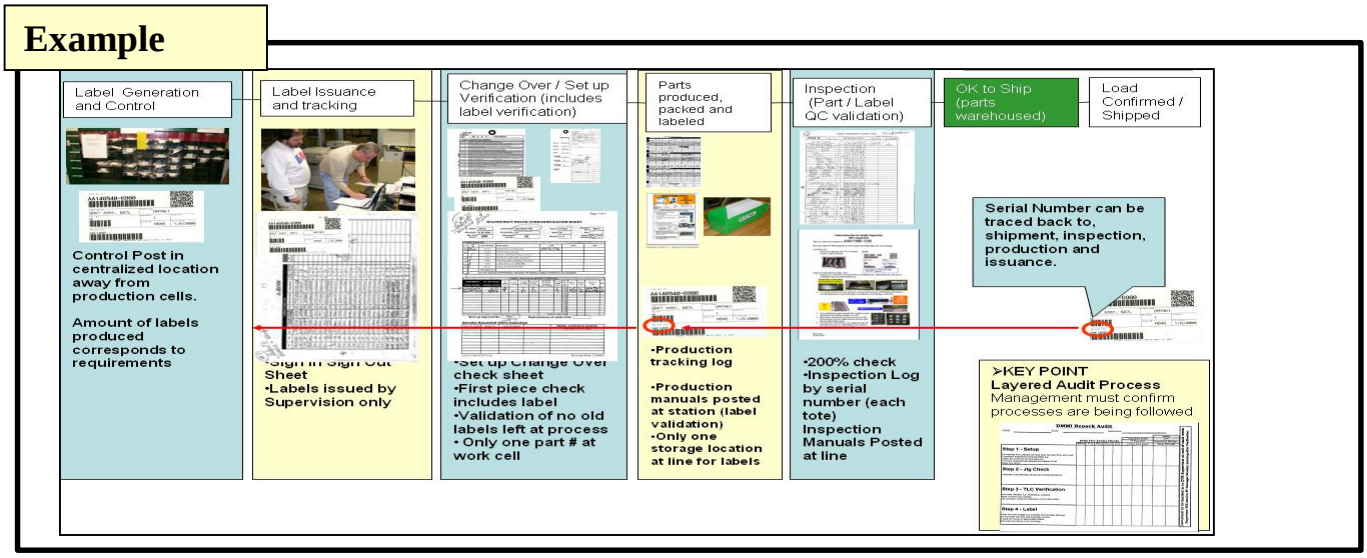
Item	Requirements
Label Generation and Control	**1) Electronic Scan to generate shipping label** **2) Electronic Traceability of label generation**
Start up / Change Over / Rotation / Shift Change Verification	Special controls for new part runs are not required si ols label generation.
Production / Packing	1) Inventory Management system with live updates 2) Scan at point of production to log serial
Inspection	Secondary inspection of label part number match actual part in container is not required.

Level 2: **Manufacturing Line Side Labeling (Manual Confirmation)**

Issued: 2017

4.1 Level 2 Manufacturing Line Side Labeling Manual Verification

Example

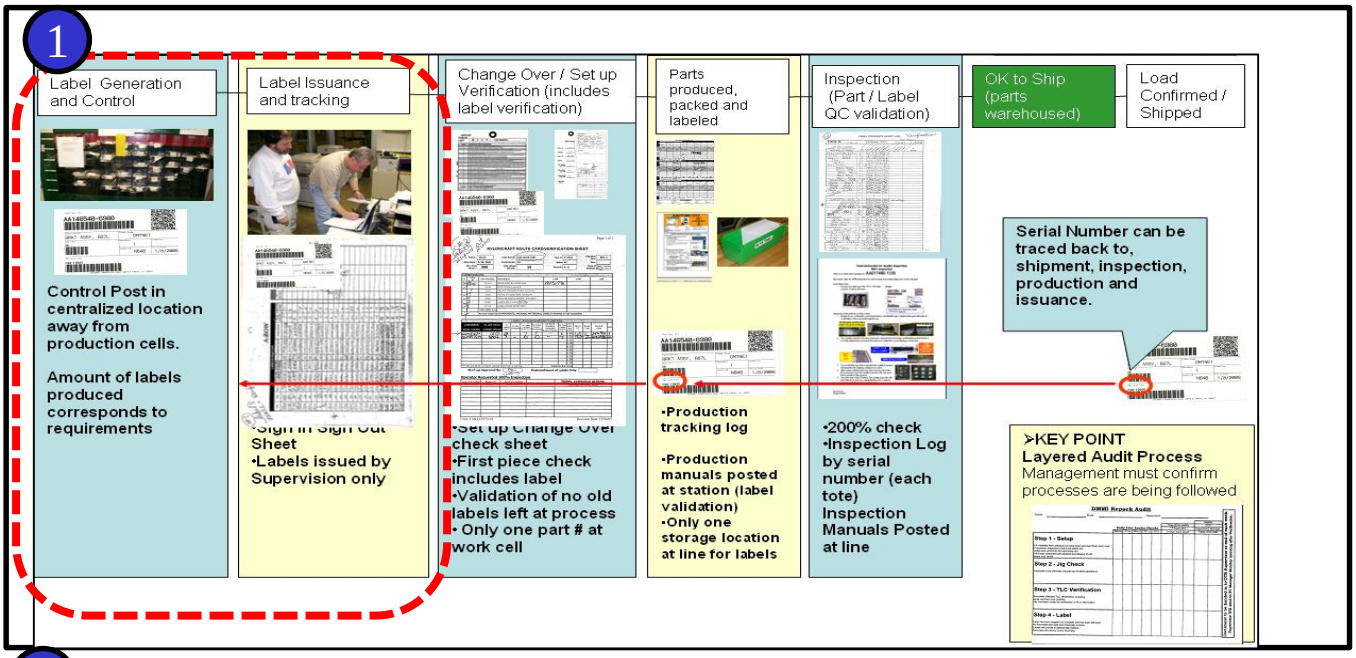


Level 2 Requirements

Item	Requirements
Label Generation and Control	**Labeling Sign-Out Log.** Once Shipping Labels are generated from NASWEB a Sign-Out Log is utilized which is controlled by management to track the label issuing to manufacturing line. (See Example on Page 7) **Key Information on Sign-out Log**. Part Number, Qty of Labels Issued, Ship Date, Associate that printed the labels, and issue to line date.
Start up / Change Over / Rotation / Shift Change Verification	**Changeover Check Sheet Key Items**: First piece check includes label matches actual part, Validation of no old labels left at process, and only one part # at work cell at a time. (Example Page 8)
Production / Packing	1) **Production tracking log** that tracks part number, lot number, production date, time, and DENSO Shipping Label serial number. 2) Production manuals posted at station which includes label validation. 3) Only one storage location at line for labels
Inspection	**QC does 200% check which includes label validation** and records result in inspection log by serial number (each tote) Inspection Manuals are posted at the line
Management Layered Audits	Key Point; **Management must complete layered audits** a minimum of one time per month to ensure processes are being followed.

4.2 Level 2 Manufacturing Line Side Labeling Manual Verification

<Overall Level 2 Process>



1 Step 1 Label Generation and Control> Level 2

- **Labeling Sign-Out Log.** Once Shipping Labels are generated from NASWEB a Sign-Out Log is utilized which is controlled by management to track the label issuing to manufacturing line.
- **Key Information on Sign-out Log**. Part Number, Qty of Labels Issued, Ship Date, Associate that printed the labels, and issue to line date. See Example Log Below.

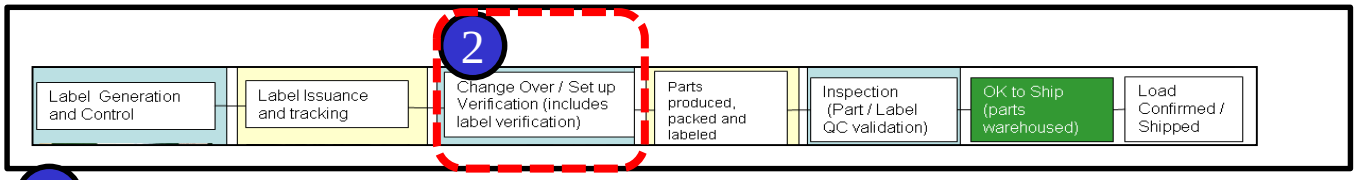
Purpose: Create Controlled Label Printing and Distribution method of DENSO Labels to prevent extra or mixed labels delivered to production line.

Example: Labels Made and Verified

LABELS SIGN OUT										LABELS SIGN IN			
Date	Who (Initial)	Ship Date	P/N on Labels	P/N on Route Card	Press	Beginning Serial #	Ending Serial #	Route Card Qty	Route Card Qty	Qty Returned	Serial #(s) Returned	Who	Reason
25-May	MO	25-May	41170	41170	A4	2451832	2451836	5	5				
25-May	JG	25-May	84846	84846	A14	2452037	2452042	6	6				
25-May	JG	25-May	84850	84850	A14	2452044	2452049	6	6				
25-May	MO	25-May	12200	12200	A15	2450473	2452479	7	7				
25-May	SW	25-May	86320	86320	A6	2455239	2455252	14	14				
25-May	SW	25-May	86330	86330	A6	2455254	2456225	14	14				
25-May	SW	25-May	41170	41170	A4	2455871	2469989	5	5				
25-May	SS	25-May	84860	84860	A14	2452051	2485333	3	3				
25-May	SH	25-May	84870	84870	A14	2455278	2123653	6	6				

4.3 Level 2 Manufacturing Line Side Labeling Manual Verification

<Overall Level 2 Process>



2 Step 2 Start Up/ Change Over/ Rotation/ Shift Change Verification> Level 2

- Changeover Check Sheet Key Items:

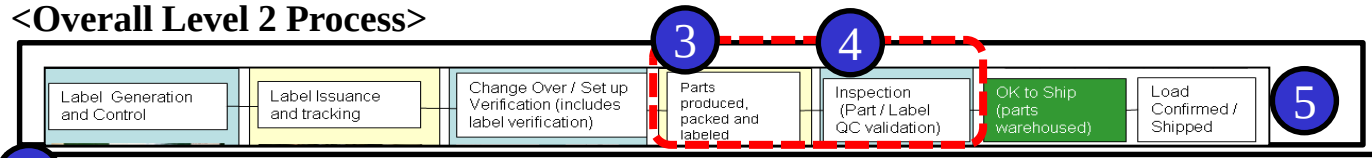
Purpose: Ensure no Part Mixing occurs during changeover, rotation, and or Shift Change. Confirm label control is handled as part as changeover.

Example

Start Up, Change over, Rotation, and Shift Change Verification		
Part Number to Run	AA125450-1010	
	STEP/DUTY	Check Box
1)	Validate the labels issued for the parts scheduled to run. Also, ensure clean point prior to part/rotation/shift change.	Fred Simpson (9/18) 9:00 a.m.
2)	Check the log to confirm (and record supervision approval) that the process has been cleared of all old parts and old labels.	Fred Simpson (9/18) 9:00 a.m.
3)	Confirm that proper packaging and labeling manuals have been set up, and they match the scheduled job.	Fred Simpson (9/18) 9:00 a.m.
4)	Perform a first and last piece check to confirm and record received labels are for proper part numbers and the planned production quantity.	Fred Simpson (9/18) 9:00 a.m.

4.4 Level 2 Manufacturing Line Side Labeling Manual Verification

<Overall Level 2 Process>



3 Step 3 Production and Packing Level 2

1) Utilize Production tracking log that tracks part number, lot number, production date, time, and DENSO Shipping Label serial number.
2) Production manuals posted at station which includes label validation.
3) Only one storage location at line for labels

Purpose: Ensure no Part Mixing or wrong Label applied at final pack-out.

4 Step 4 Quality Inspection Level 2

1) QC does 200% check which includes label validation and records result in inspection log by serial number for each tote. See example below
2) Inspection Manuals are posted at the line

Purpose: Ensure no wrong label applied by production and packing process

EXAMPLE: FINAL PRODUCT VERIFICATION

FINAL PRODUCT AUDIT LOG

TOOL #: INTERNAL PART #:

LABEL SERIAL NUMBERS AUDITED (LAST 4 DIGITS EXCEPT WHEN WHOLE # CHABGES	100% Part and Label Verification	FINAL AUDITOR CLOCK	OP CLOCK NUMBER(S)	DATE	IF REJECT, CONTROL PLAN #	*NCPR#
00202582-2586		5713	8430	6-May		
2587-2590		5713	8430	6-May		
2591-2593		5713	8430	6-May		
2594		5713	8430	6-May		
2595	1ST	5713	8430	6-May		
2418552		5713	5747	6-May		
8553-8554		5713	5747	6-May		

5 Step 5 Management Layered Audits Level 2

Key Point: Management must complete layered audits to ensure processes are being followed. (Example Leader Check Frequency (Line Leader – 2 times per week, Supervisor (1 time per week) , Plant Manager (1 time per month)

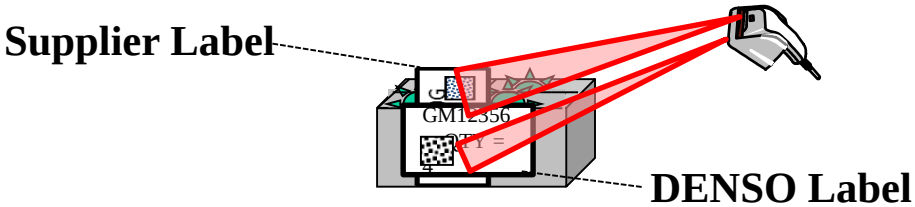
Purpose: Ensure by several different levels of management that standardize processes are being followed and are working well for the associates

Level 3: **Warehouse Labeling (Electronic Confirmation)**

5.1 Level 3 Warehouse Labeling Electronic Confirmation

Example

<Electronic Confirmation of Shipping Label Part Number>



<Manufacturing Labeling with Supplier Internal Tag>

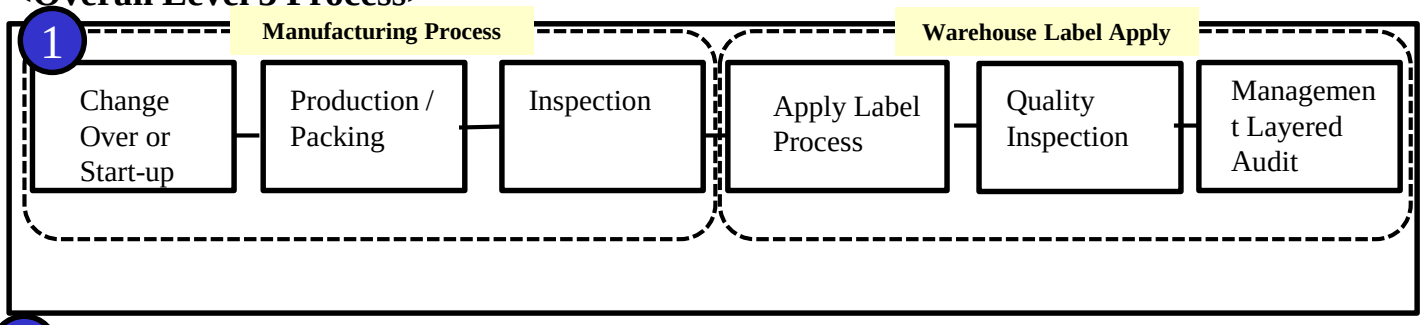
Item	Requirements
Change Over or Start-up	Start up / Change Over / Rotation / Shift Change Verification *Changeover Check Sheet Key Items: First piece check includes label matches actual part, Validation of no old labels left at process, and only one part # at work cell.
Production / Packing	1) Production tracking log that tracks part number, lot number, production date, and time. 2) Production manuals posted at station which includes label validation. 3) Only one storage location at line for labels
Inspection	QC does 200% check which includes label validation and records result in inspection log by serial number (each tote). Manuals are posted at the line. **Note**: If Manufacturing equipment 100% electronically verifies parts match label by vision system or part ID scanning than 200% check is not required.

<Warehouse DENSO Label Apply Process>

Item	Requirements
Label Generation and Control	**Labeling Sign-Out Log.** Once Shipping Labels are generated from NASWEB a Sign-Out Log is utilized which is controlled by management to track the label issuing to shipping process. **Key Information on Sign-out Log**. Part Number, # of Labels Issued, Ship Date, Associate that printed the labels, and issue to shipping process date.
Label Process	1) Scan system exists that cannot be bypassed that electronically checks DENSO Label versus Supplier label. 2) Labeling is one for one process.
1 Piece Check per Box	1 piece per DENSO Label is verified that part matches DENSO Kanban. Note: Not required if manufacturing equipment electronically verifies parts to label
Management Layered Audits	Key Point; Management must complete layered audits a minimum of one time per month to ensure processes are being followed.

5.2 Level 3 Warehouse Labeling Electronic Confirmation

<Overall Level 3 Process>



1 Step 1 Change Over or Startup Level 3

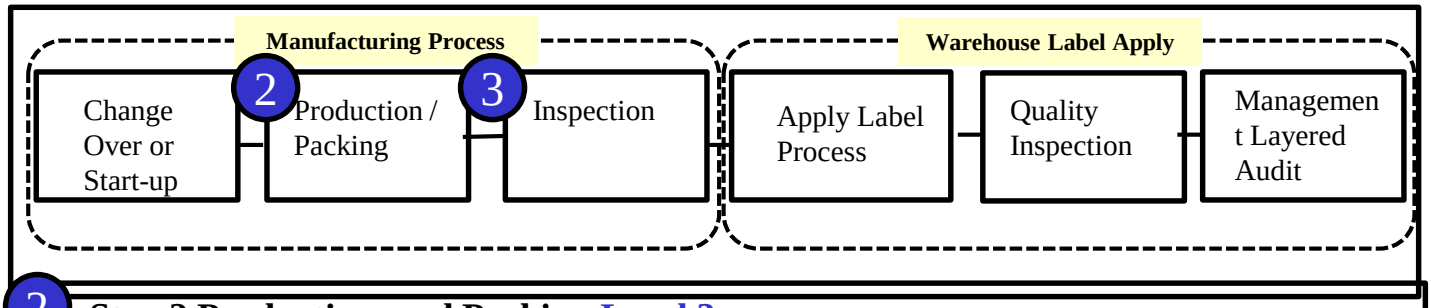
- Changeover Check Sheet Key Items:

Purpose: Ensure no Part Mixing occurs during changeover, rotation, and or Shift Change. Confirm label control is handled as part as changeover.

Start Up, Change over, Rotation, and Shift Change Verification		
Part Number to Run	AA125450-1010	
	STEP/DUTY	Check Box
1)	Validate the labels issued for the parts scheduled to run. Also, ensure clean point prior to part/rotation/shift change.	Fred Simpson (9/18) 9:00 a.m.
2)	Check the log to confirm (and record supervision approval) that the process has been cleared of all old parts and old labels.	Fred Simpson (9/18) 9:00 a.m.
3)	Confirm that proper packaging and labeling manuals have been set up, and they match the scheduled job.	Fred Simpson (9/18) 9:00 a.m.
4)	Perform a first and last piece check to confirm and record received labels are for proper part numbers and the planned production quantity.	Fred Simpson (9/18) 9:00 a.m.

5.3 Level 3 Warehouse Labeling Electronic Confirmation

<Overall Level 3 Process>



2 Step 2 Production and Packing Level 3

1) Production tracking log that tracks part number, lot number, production date, time, and Supplier Internal Identification.
2) Production manuals posted at station which includes label validation.
3) Only one storage location at line for labels

Purpose: Ensure no Part Mixing or wrong label applied at final pack-out.

3 Step 3 Quality Inspection Level 3

1) QC does 200% check which includes label validation and records result in inspection log by serial number for each tote. See example below:
2) Inspection Manuals are posted at the line

Purpose: Ensure no wrong label applied by production and packing process

EXAMPLE: FINAL PRODUCT VERIFICATION

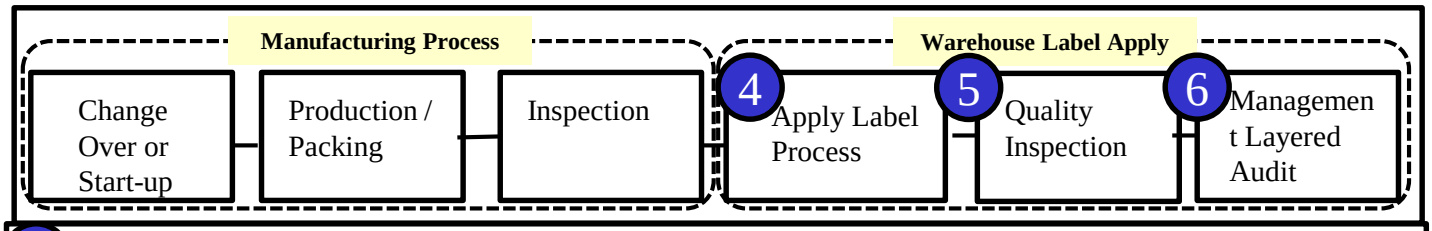
FINAL PRODUCT AUDIT LOG

TOOL #: INTERNAL PART #:

LABEL SERIAL NUMBERS AUDITED (LAST 4 DIGITS EXCEPT WHEN WHOLE # CHABGES	100% Part and Label Verification	FINAL AUDITOR CLOCK	OP CLOCK NUMBER(S)	DATE	IF REJECT, CONTROL PLAN #	*NCPR#
00202582-2586		5713	8430	6-May		
2587-2590		5713	8430	6-May		
2591-2593		5713	8430	6-May		
2594		5713	8430	6-May		
2595	1ST	5713	8430	6-May		
2418552		5713	5747	6-May		
8553-8554		5713	5747	6-May		

5.4 Level 3 Warehouse Labeling Electronic Confirmation

<Overall Level 3 Process>

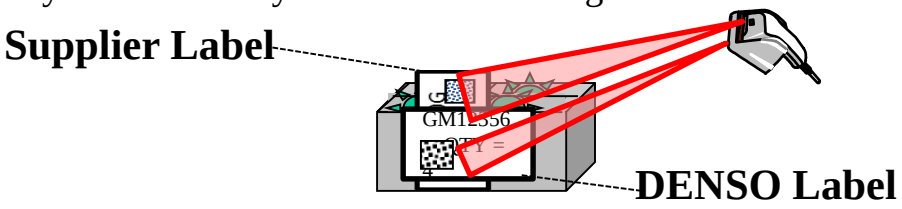


4 Apply DENSO Label Process Level 3

<Electronic Confirmation of Shipping Label Part Number>

Purpose: Ensure Label on Box Match parts in container by electronic check.

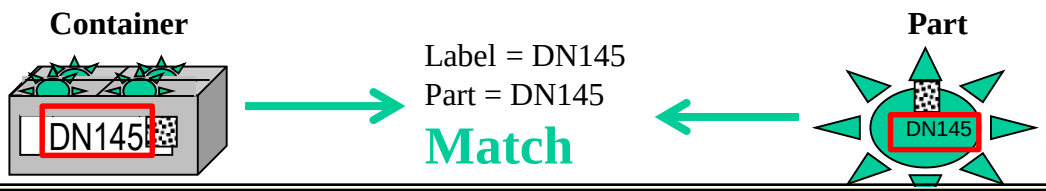
Use Scanner to Electronically confirm that the Internal Label and DENSO Shipping Label part number and quantity match. The scanner should also record label serial history for traceability from Manufacturing Date and Time to shipping label.



5 Quality Inspection: Check 1 Piece Per Box Check Level 3

- Check 1 part per container per DENSO Label to verify that the part matches DENSO Label.

Note: Not required if manufacturing equipment electronically verifies parts to label



Purpose: Confirm Parts matches DENSO label.

6 Management Layered Audits Level 3

Key Point: Management must complete layered audits to ensure processes are being followed. (Example Leader Check Frequency (Line Leader – 2 times per week, Supervisor (1 time per week) , Plant Manager (1 time per month)

Purpose: Ensure by several different levels of management that standardize processes are being followed and are working well for the associates

Level 4 **Warehouse Labeling Manual Confirmation**

Issued: 2017

6.1 Level 4 Warehouse Labeling Manual Confirmation

Example **<Manual Confirmation of Shipping Label Part Number>**

1. Confirm Supplier Kanban and DENSO part number and quantity match. After confirmation Apply DENSO Label to tote or box.
2. Manually confirm that the Internal Label and DENSO Shipping Label part number and quantity match. The internal label should be saved for 3 months with the DENSO D.O. number for traceability.

<Manufacturing Labeling with Supplier Internal Tag>

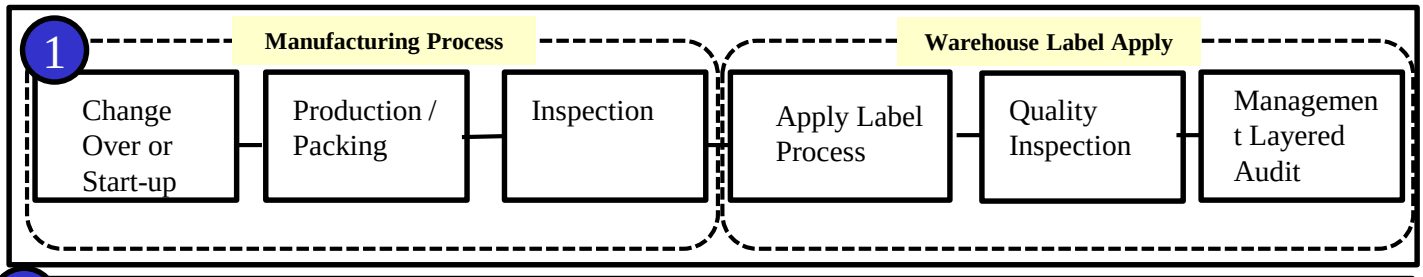
Item	Requirements
Change Over or Start-up	Start up / Change Over / Rotation / Shift Change Verification *Changeover Check Sheet Key Items: First piece check includes label matches actual part, Validation of no old labels left at process, and only one part # at work cell.
Production / Packing	1) Production tracking log that tracks part number, lot number, production date, and time. 2) Production manuals posted at station which includes label validation. 3) Only one storage location at line for labels
Inspection	QC does 200% check which includes label validation and records result in inspection log by serial number (each tote). Manuals are posted at the line **Note**: If Manufacturing equipment 100% electronically verifies parts match label by vision system or part ID scanning than 200% check is not required.

<Warehouse DENSO Label Apply Process>

Item	Requirements
Label Generation and Control	**Labeling Sign-Out Log.** Once Shipping Labels are generated from NASWEB a Sign-Out Log is utilized which is controlled by management to track the label issuing to manufacturing line. **Key Information on Sign-out Log**. Part Number, # of Labels Issued, Ship Date, Associate that printed the labels, and Issue to line date.
Label Process	1. Confirm Supplier Kanban and DENSO part number and quantity match. After confirmation Apply DENSO Label to tote or box. Then complete 1 piece check to confirm correct label. 2. Manually confirm that the Internal Label and DENSO Shipping Label part number and quantity match. The internal label should be saved for 3 months with the DENSO D.O. number for traceability.
1 Piece Check per Box	1 piece per DENSO Label is verified that part matches DENSO Kanban. Note: Not required if manufacturing equipment electronically verifies parts to label
Management Layered Audits	Key Point; Management must complete layered audits a minimum of one time per month to ensure processes are being followed.

6.2 Level 4 Warehouse Labeling Manual Confirmation

<Overall Level 4 Process>



1 Change Over or Startup Level 4

- Changeover Check Sheet Key Items:

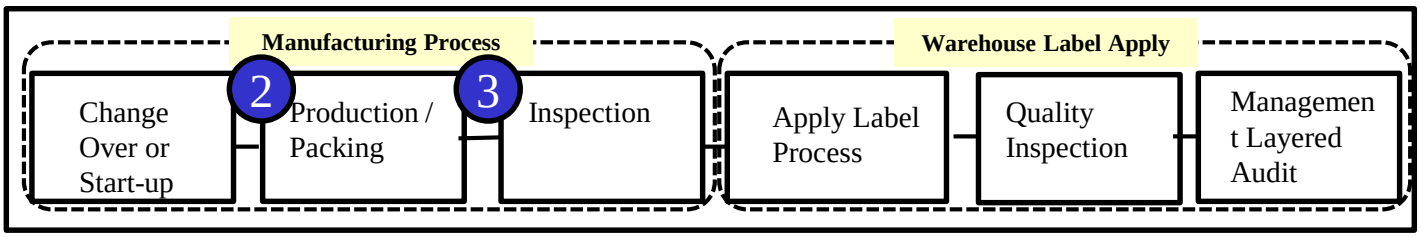
Purpose: Ensure no Part Mixing occurs during changeover, rotation, and or Shift Change. Confirm label control is handled as part as changeover.

Start Up, Change over, Rotation, and Shift Change Verification	
Part Number to Run	AA125450-1010

	STEP/DUTY	Check Box
1)	Validate the labels issued for the parts scheduled to run. Also, ensure clean point prior to part/rotation/shift change.	Fred Simpson (9/18) 9:00 a.m.
2)	Check the log to confirm (and record supervision approval) that the process has been cleared of all old parts and old labels.	Fred Simpson (9/18) 9:00 a.m.
3)	Confirm that proper packaging and labeling manuals have been set up, and they match the scheduled job.	Fred Simpson (9/18) 9:00 a.m.
4)	Perform a first and last piece check to confirm and record received labels are for proper part numbers and the planned production quantity.	Fred Simpson (9/18) 9:00 a.m.

6.3 Level 4 Warehouse Labeling Manual Confirmation

<Overall Level 3 Process>



2 Production and Packing Level 4

1) Production tracking log that tracks part number, lot number, production date, time, and Supplier Internal Identification.
2) Production manuals posted at station which includes label validation.
3) Only one storage location at line for labels

Purpose: Ensure no Part Mixing or wrong label applied at final pack-out.

3 Quality Inspection Level 4

1) QC does 200% check which includes label validation and records result in inspection log by serial number for each tote. See example below:
2) Inspection Manuals are posted at the line

Purpose: Ensure no wrong label applied by production and packing process

EXAMPLE: FINAL PRODUCT VERIFICATION

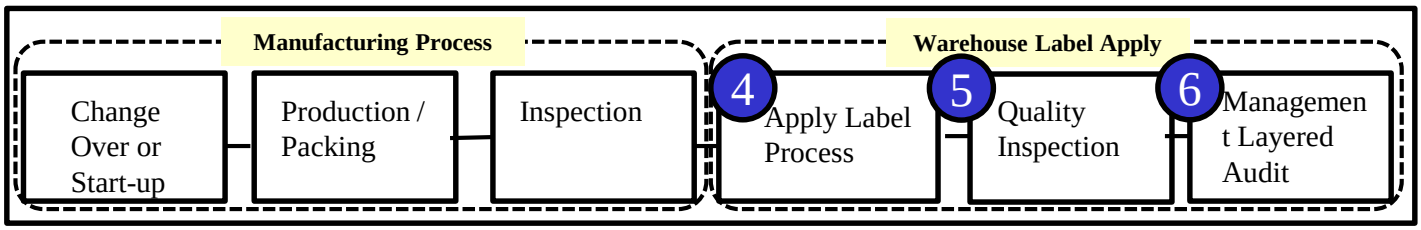
FINAL PRODUCT AUDIT LOG

TOOL #: INTERNAL PART #:

LABEL SERIAL NUMBERS AUDITED (LAST 4 DIGITS EXCEPT WHEN WHOLE # CHABGES	100% Part and Label Verification	FINAL AUDITOR CLOCK	OP CLOCK NUMBER(S)	DATE	IF REJECT, CONTROL PLAN #	*NCPR#
00202582-2586		5713	8430	6-May		
2587-2590		5713	8430	6-May		
2591-2593		5713	8430	6-May		
2594		5713	8430	6-May		
2595	1ST	5713	8430	6-May		
2418552		5713	5747	6-May		
8553-8554		5713	5747	6-May		

6.4 Level 4 Warehouse Labeling Manual Confirmation

<Overall Level 3 Process>

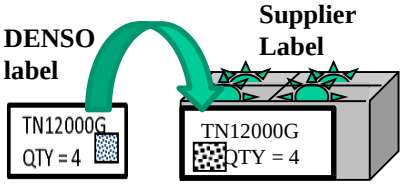


4 Apply DENSO Label Process Level 4

<Manually Confirm Shipping Label Part Number matches Internal Tag>

Purpose: Ensure Label on Box Match parts in container.

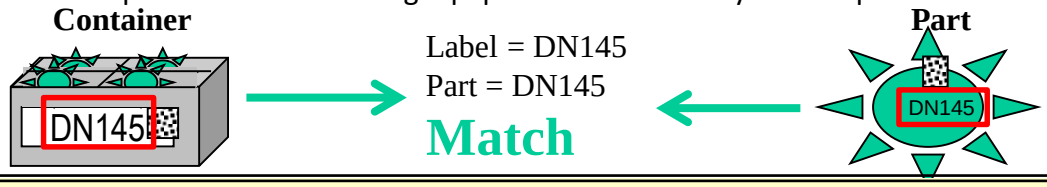
Manually confirm that the Internal Label and DENSO Shipping Label part number and quantity match. Manually record the label serial history for traceability from Manufacturing Date and Time to shipping label.



5 Quality Inspection: Check 1 Piece Per Box Check Level 4

- Check 1 part per container per DENSO Label to verify that the part matches DENSO Label.

Note: Not required if manufacturing equipment electronically verifies parts to label



Purpose: Confirm Parts matches DENSO label.

6 Management Layered Audits Level 4

Key Point: Management must complete layered audits to ensure processes are being followed. (Example Leader Check Frequency (Line Leader – 2 times per week, Supervisor (1 time per month) , Plant Manager (Quarterly)

Purpose: Ensure by several different levels of management that standardize processes are being followed and are working well for the associates

Repack in Warehouse

7.1 Repack Minimum Standards

Repack: Repack Finished Goods from supplier or in-house production to same or different lot size and placing new Label on parts prior to shipping to DENSO. Below is list of minimum requirements to prevent wrong DENSO Shipping label applied.

	Category	Minimum Standard	Recommendation (Not Required but Suggested Best Practice)
1	**Layout**	Create a designated area for the Repack Process. This area should include locations for incoming repack parts, customer empty pkg, Repack Area, and Outgoing Parts. ***Purpose:*** *Provide Clear Layout and visual control to prevent Mixing or Missing Parts.*	* For tote repack setup work station that includes a designated kanban storage and packaging specs. * Utilize Roller Racks to control FIFO and forklift traffic.
2	**Scheduling Trigger**	A scheduling system should be maintained to clearly give direction on which part number, quantity, and when to repack. This system should also direct what packaging to use and provide kanbans for job. ***Purpose:*** *Provide system for leveling work through out the day and avoid rushing repack operation to meet shipping schedule.*	Pull System --> Use set number of kanbans in loop to keep inventory in After Repack Warehouse location. Utilize lot making post to build lots based off repack min lot size to avoid partials. Progress Post should be used to give direction on what is next priority to repack and to show ahead or behind status.
3	**Part to Label Verification**	Confirm one part per label to confirm the part number on the actual part matches the repack kanban part number. If label is not available use an inspection standard to identify part. ***Purpose:*** *Catch Mix Parts from In-house or Supplier.*	NA
4	**Labeling**	After container is repacked associate must confirm new kanban part number matches previous label base part #. If the parts match then label the new container. (Base Part = Part minus packaging code) ***Purpose:*** *Confirm by visual check that the part number matches to prevent Mix Label.*	* Use Scanning Confirmation to Generate Denso Shipping Label with traceability * Once the container is full the associate should apply new kanban to container after verifying the kanban part number matches previous incoming kanban.
5	**Process Completion**	There should be rule in OMS that specifies that associate should not stop repack cycle until lot is complete. ***Purpose:*** *Do not leave work station with incomplete repack lot for break, lunch, or end of shift to prevent mix or missing parts.*	NA

8.0 Supplier Label Requirements & QR Code Spec

<**DENSO** 6.5x4 Large Container Label Tech Spec>

Part Number
Block Title = Part Number
Data Identifier = P
Data = Part Number (including dash)
Text Height = 7 mm
Source = 862 Segment LIN03(BP)
Maximum Length = 15

Description
Block Title = Description
Data = Part Description
Text Height = 5 mm
Source = 862 Segment LIN05(PD)
Maximum Length = 30

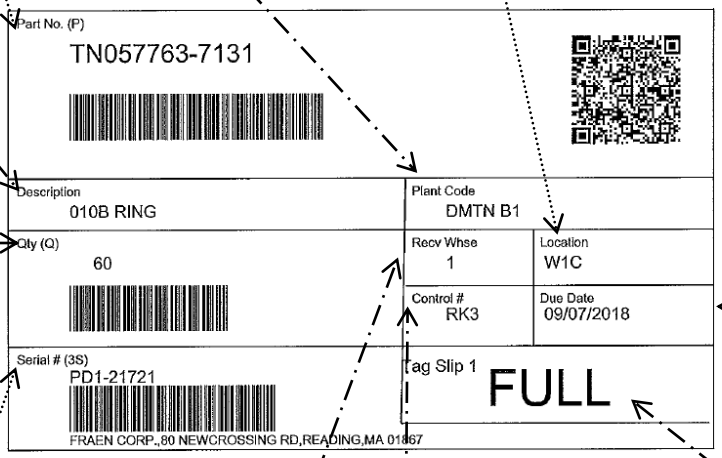
Quantity
Block Title = Qty
Data Identifier = Q
Data = Based on Order quantity and Box quantity
Text Height = 7 mm
Source = 862 Segment P0402(BX)
Maximum Length = 8

Serial Number (by supplier code)
Block Title = Serial #
Data Identifier = 3S
Data = Based on Supplier code and serial number (including dash) *Note: Strip off the affiliate when creating the tags, ONLY have the Supplier Code – Serial # (Serial# = Sequential 0 to 69999 by part number)
Text Height = 7 mm
Source = 862 Segment N104(SU)
Maximum Length = 12

Plant Code
Block Title = Plant Code
Data = Ship to plant
Text Height =14 mm
Source = 862 Segment N104(ST)
Maximum Length = 2

Location
Block Title = Location
Data = Warehouse location
Text Height = 6 mm
Source = 862 Segment REF02(RL)
Maximum Length = 5

Due Date
Block Title = Due Date
Data = Delivery due date
Text Height = 6 mm
Source = 862 Segment DTM02(002)
Maximum Length = 8



Warehouse
Block Title = Warehouse
Data = Receiving Warehouse
Text Height = 6 mm
Source = 862 Segment REF02(RV)
Maximum Length = 1

Control Number

Block Title = Control #
Data = Control number from 862
Text Height = 6 mm
Source = 862 Segment LIN07(KP)
Maximum Length = 4

Tag Slip 1 Remark
Block Title = Tag Slip 1
Data = Remark / Comment
Text Height = 9 mm
Source = 862 Segment PKG05 when PKG01=F
This is an input field at "Tag Slip Remarks (1)" Note: User default is blank if no comment is desire
Maximum Length = 8

Label Purpose: Identifies a part number in the container	Size: 4 x 6.5; cardstock. Illustration is NOT actual size. Any dimensions that are not otherwise specified on this page SHALL be in compliance with AIAG B-10.

<DENSO 3 x1 Small Container Label Specification>

Description
Block Title = Description
Data = Part Description
Text Height = 5 mm
Source = 862 Segment LIN05(PD)
Maximum Length = 30

Part Number
Block Title = Part Number
Data Identifier = P
Data = Part Number (including dash)
Text Height = 7 mm
Source = 862 Segment LIN03(BP)
Maximum Length = 15

Serial Number (by supplier code)
Block Title = Serial #
Data Identifier = 3S
Data = Based on Supplier code and serial number (including dash) **Note: Strip off the affiliate when creating the tags. ONLY have the Supplier Code – Serial # (Serial # = sequential 0 to 69999 by part number)*
Text Height = 7 mm
Source = 862 Segment N104(SU)
Maximum Length = 12

•**Quantity**
•Block Title = Qty
•Data Identifier = Q
•Data = Based on Order quantity and
•Box quantity
•Text Height = 7 mm
•Source = 862 Segment P0402(BX)
•Maximum Length = 8

8.0 Supplier Label Requirements & QR Code Spec

<DENSO Quick Receive (LPN) Label Specification>

1) Label Format

4"x 6.5" sticky label

Label will be created in (1)NASWEB supplier portal -OR- (2) for EDI suppliers, by supplier system and approved by NAPCE (na-dmtn-napc@na.denso.com)

From Address
Text height: 6mm
Source: 862 Segment N101(SU);
N202 bytes 40-74
N301 bytes 4-39
N302 bytes 40-74

To Address
Text height: 6mm
Source: 862 Segment N101(ST);
N202 bytes 40-74
N301 bytes 4-39
N302 bytes 40-74

Pallet Id cannot repeat at supplier code level over the course of a calendar year. Example→Supplier ABC123 ships to DMAT and DMTN; cannot send same pallet ID to both locations.

Text height: 14 mm

DENSO Affiliate code+Pallet Serial Number (**System generated non-repeating number**)+Supplier code
Text height: 16mm
Source: 862 Segment N104(SU)
bytes 11-19+REF02 I27

DO#
Text Height 14 mm
Source: 862 Segment
LIN05 element 234

"MIXED" for pallet with multiple part numbers on it

Linear Barcode Contents:
1. Tag format identifier (QR)
2. DENSO affiliate code+Pallet ID+Supplier Code to DENSO (padded with blanks on right side to make 6 digits if less than 6 digits)

Total characters=19
2 digits: Identifier QR
2 digits: DENSO Affiliate code (please refer to table for guide)
9 digits: Unique Pallet Serial number
6 digits: Supplier code
This information will be tied to ASN

SAMPLE:
QRTN123456789A42

AFFILIATE CODE	DENSO LOCATION
AA	DMMI
AK	DMAR
CN	DMCN
TN	DMTN
NC	DMNC
MX	DNMX
KA	KDMK
WH	NALC (DLNT, DLIA, DLMI, DLTX)
GX	ASMX
YB	Air Systems
AN	DMAT

8.1 Label Specification

* These need to be printed on 6.5 x 8 kanban stock (**Not Paper**).
* You can select your own supplier if you like or choose from above, **but it must be card stock (Printing on paper not acceptable)**

Purpose: To inform suppliers of purchasing card stock for kanbans <Labeling Totes>

Timing Order L/T is approximately 3 weeks

Purchased By: Each supplier is responsible for meeting this reqt and purchasing the card stock.

Supplier Taylor Communications ----
INCORPORATED AS: *STANDARD REGISTER, INC*
4609 Branch Ave, Portage, MI 49002
Contact:
Kellie Hodgkins – *Account Executive*
Office: 877.752.7025 Ext. 2
E-mail -
Kellie.Hodgkins@taylorcommunications.com

Specification DWOS NASWEB Tags
Blank white tags perforated at 4” from top.
Size 6 ½ x 8
Wrapped in qty’s of 2500
2000 per carton
$56.75 / M per thousand

8.2 NPI Label Specification

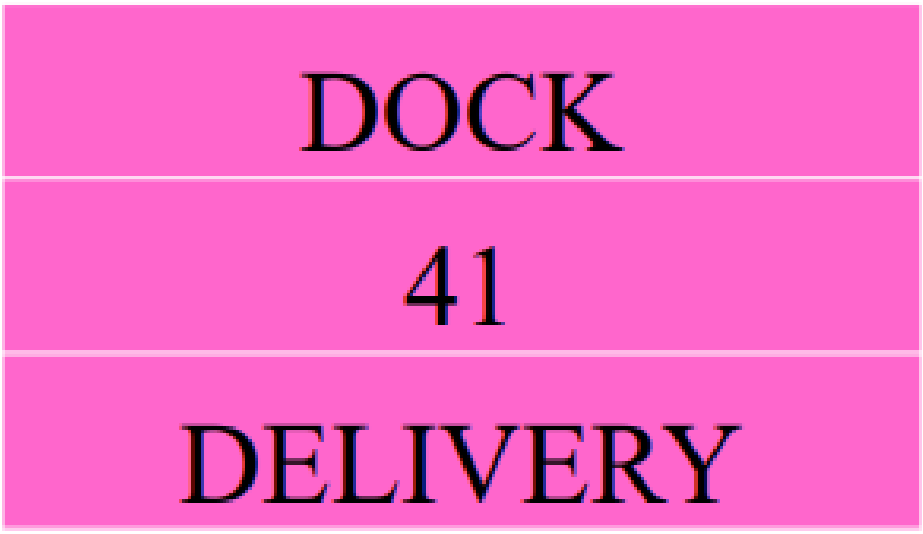
*New Product Label (Pink, paper label)

1. All new product shipped to DENSO that is ordered by a Delivery Order must have a pink New Product label on each box.
2. The pink New Product label is to be located as follows:

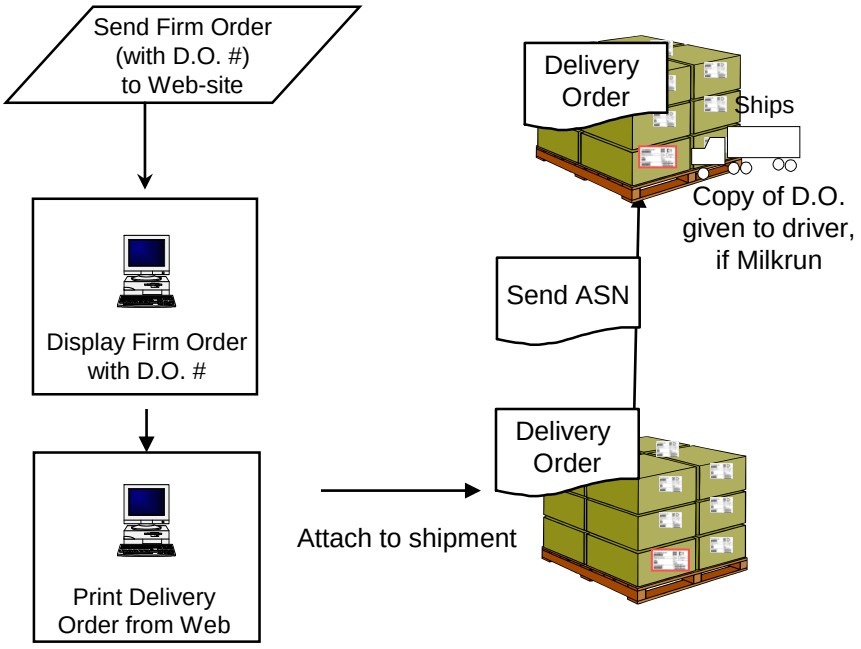
-Pink label should be on each side of skid (fork side).

-If air shipped apply clearly on outside of box. Please refer to DO#/PO#.

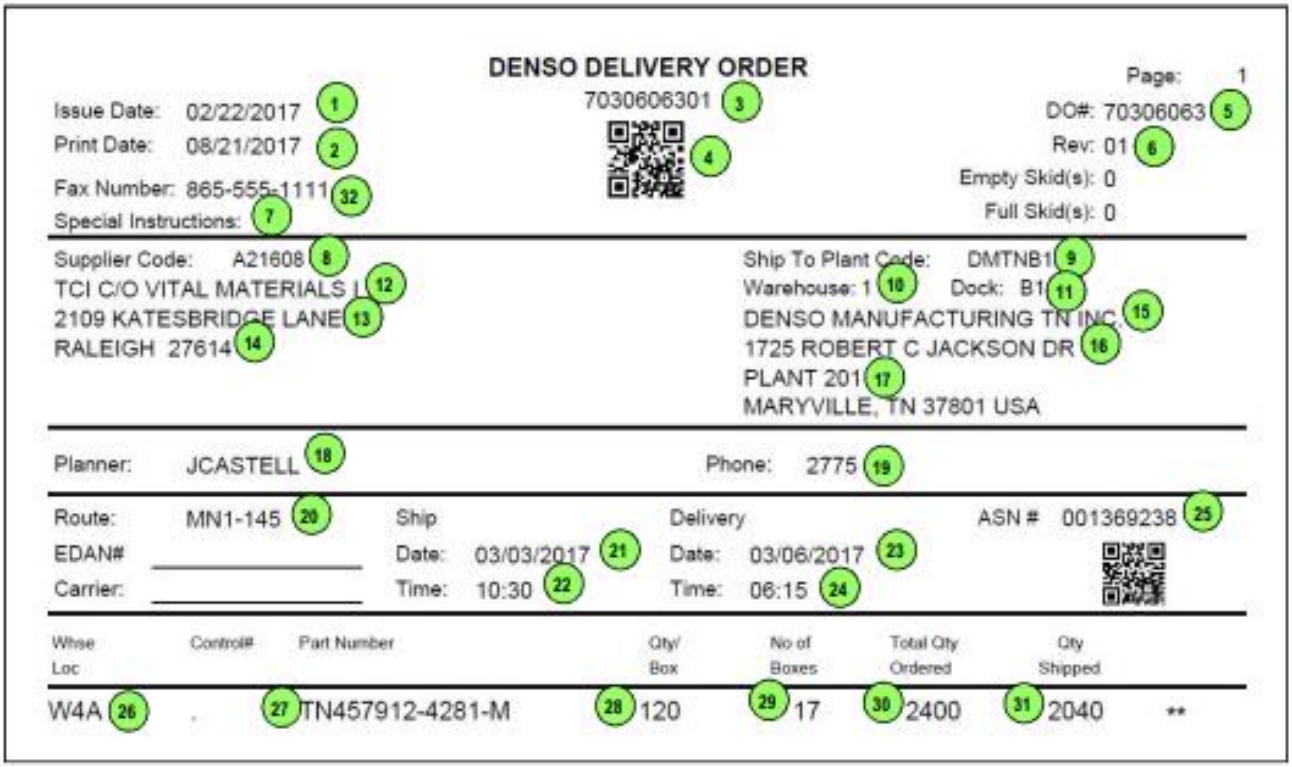
3. If shipped under DO# /dock code # or PO# use below pink label:



DELIVERY ORDER

PURPOSE	To provide a uniform shipping document to accompany all shipments to DENSO.
TIMING	(1) To be printed before staging via NASWEB. (See NASWEB manual on Supplier Guide page) (2) Attached to every shipment sent to DENSO. **Note: DENSO cannot accept shipments without** a Delivery Order. (3) ASN must be sent 30 minutes after shipment leaves - OR – Within timeline determined by DENSO group company.
CREATED BY	SUPPLIER (from Web-site)
ROUTING DENSO WEB PROVIDER SUPPLIER	

DELIVERY ORDER



DENSO DELIVERY ORDER

7030606301 (3)

Page: 1

Issue Date: 02/22/2017 (1)
Print Date: 08/21/2017 (2)
Fax Number: 865-555-1111 (32)
Special Instructions: (7)

DO#: 70306063 (5)
Rev: 01 (6)
Empty Skid(s): 0
Full Skid(s): 0

Supplier Code: A21608 (8)
TCI C/O VITAL MATERIALS (12)
2109 KATESBRIDGE LANE (13)
RALEIGH 27614 (14)

Ship To Plant Code: DMTNB1 (9)
Warehouse: 1 (10) Dock: B1 (11)
DENSO MANUFACTURING TN INC (15)
1725 ROBERT C JACKSON DR (16)
PLANT 201 (17)
MARYVILLE, TN 37801 USA

Planner: JCASTELL (18)
Phone: 2775 (19)

Route: MN1-145 (20)
EDAN# _____
Carrier: _____

Ship Date: 03/03/2017 (21)
Ship Time: 10:30 (22)

Delivery Date: 03/06/2017 (23)
Delivery Time: 06:15 (24)

ASN # 001369238 (25)

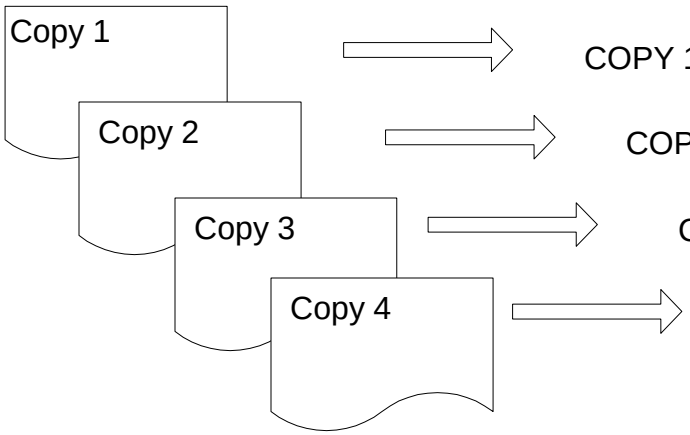
Whse Loc	Control#	Part Number	Qty/ Box	No of Boxes	Total Qty Ordered	Qty Shipped	
W4A (26)	.	(27) TN457912-4281-M	(28) 120	(29) 17	(30) 2400	(31) 2040	**

DELIVERY ORDER EXPLANATION

#	Field	Source	Data Element	Comments
1	Issue Date	862	BSS03	Creation Date
2	Print Date	Web Site		Calculated field
3	Delivery Order and Rev#	862		
4	Delivery Order # (QR Code)	862/Web Site		(Supplier Code - Serial #)
5	Delivery Order #	862	REF02 (MF)	(LIN/FST/JIT Loop) Original = 8 digits, Revision = 10 digits
6	Revision #	862	REF02 (MF)	(LIN/FST/JIT Loop) Last 2 digits of 10 digit D/O#.
7	Special Instructions	862	REF02 (KK)	
8	Supplier Code	862	N104 (SU)	
9	Plant Code	862	N104 (ST)	
10	Receiving Warehouse	862	REF02 (RV)	(LIN Loop)
11	Dock Code	862	REF02 (DK)	(LIN Loop)
12	Ship From (Supplier) Name	Web Site		From table
13	Ship From (Supplier) Address	Web Site		From table
14	Ship From (Supplier) City, State, Zip	Web Site		From table
15	Ship To Company Name	Web Site		From table
16	Ship To Plant Address	Web Site		From table
17	Ship To Plant City, State, Zip	Web Site		From table
18	Planner Name	862	PER02	
19	Planner Phone	862	PER04	
20	Route #	862	REF02 (RU)	(LIN/FST/JIT Loop)
21	Ship Date	862	DTM02 (118)	Optional --> Only sent for milkrun routes
22	Ship Time	862	DTM03 (118)	Optional --> Only sent for milkrun routes
23	Delivery Date	862	DTM02 (002)	
24	Delivery Time	862	DTM02 (002)	Optional --> Only sent when time is registered for Dock/Route
25	ASN #	862/Web Site		(Supplier Code - Serial #)
26	Warehouse Location	862	REF02 (RL)	(LIN Loop)
27	Part #	862	LIN03	
28	Qty per Box	862	PO402 (BX)	
29	# of Boxes	Web Site		Calculated field. Order Qty divided by Qty per Box
30	Order Qty	862	FST01	
31	Ship Qty	Web Site		User entered field
32	Supplier Fax #	862		

DELIVERY ORDER COPY FLOW

1. MILKRUN DELIVERY ORDER HANDLING: 4 COPIES



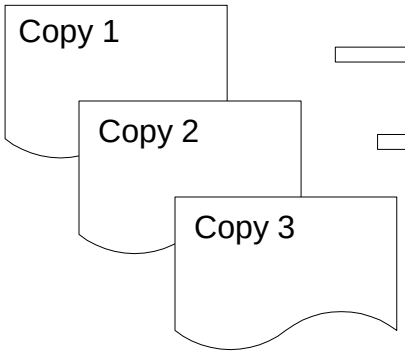
COPY 1 goes to Milkrun driver

COPY 2 goes to DENSO as a packing list

COPY 3 goes to the supplier

COPY 4 is delivered to DENSO with the invoice *

2. NON-MILKRUN DELIVERY ORDER HANDLING: 3 COPIES



COPY 1 goes to DMTN as a packing list

COPY 2 goes to the supplier

COPY 3 is delivered to DENSO with the invoice *

*** Payment can be denied if a copy of Delivery Order does not accompany the invoice.**

ORDERING PROCESS KEY POINTS

1. The Part Number and Shipping quantity are computer generated and should never be changed.

2. Overages will not be accepted, unless the part is a Variable Quantity part (i.e. raw material).

3. When modifications are made to the Delivery Order, prior approval must be given by your DENSO Production Control Specialist.

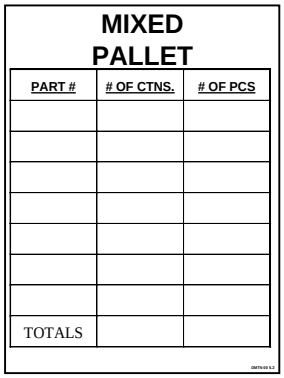
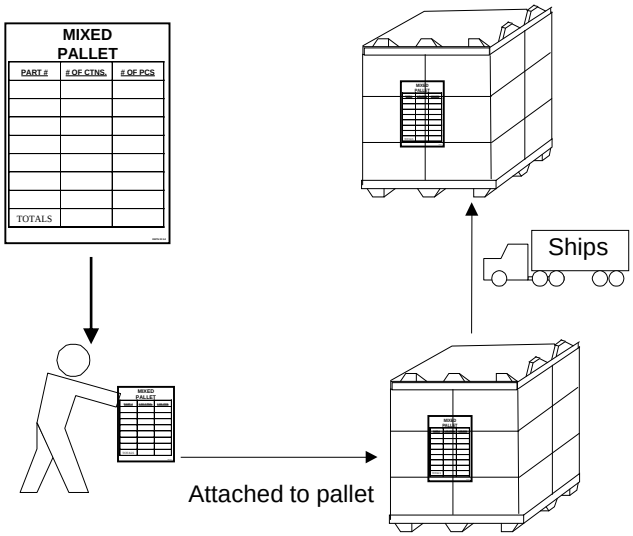
4. When the shipment is ready for pick-up, the Supplier must sign the D.O.

5. If the Supplier has shipped an incomplete order, the balance of the order should be shipped via an expedited method of transportation at the Supplier's expense.

6. Firm order revision conditions:
   Increases - Parts which are increased print to an additional D.O.
   Decreases - Prints new D.O. for all parts (discard previous D.O.).

7. A copy of the D.O. should be attached to the invoice. Invoice should reference D.O. number (NOT THE PURCHASE ORDER NUMBER). Payment can be denied if a copy of the D.O. does not accompany the invoice.

MIXED LOAD LABEL

PURPOSE	DENSO standard label used to identify the contents of a pallet with more than one part number.
RESPONSIBILITY	The supplier is responsible for identifying and labeling all mixed pallets.
TIMING	Created and attached to every mixed pallet at time of shipment.
REQUIREMENTS	• Blank form, **DENSO 00 5.2**, found on page 3-16 • White 8 ½" x 11" sheet • Attached to each end of the mixed pallet • DENSO part number, number of cartons and number of pieces 
ROUTING	

MIXED LOAD LABEL EXAMPLE

MIXED PALLET

PART #	# OF CTNS.	# OF PCS
TOTALS		

DMTN 00 5.2

CORRECT KANBAN PLACEMENT

Examples of correct label placement:
All Kanbans must face outward when possible, unless otherwise specified by DENSO.
This will allow auditing without physically handling containers.

Returnable Tote

Returnable Pallet

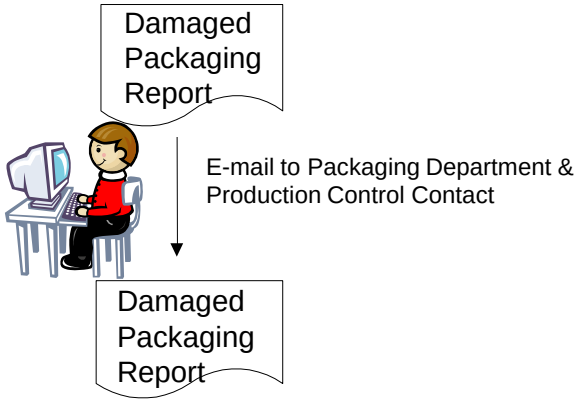
Expendable Box

Expendable Pallet

REELED PARTS

PURPOSE	To distinguish between reels after removal from the container.
RESPONSIBILITY	Supplier must attach part number label to reel, when shipping reeled parts.
TIMING	Prior to shipment of parts.
REQUIREMENTS	Label should show DENSO part number, as shown on Kanban card. Label format is not specified.
ILLUSTRATION	

DAMAGED PACKAGING REPORT

PURPOSE	To notify the Packaging Department of damaged returnable containers.
TIMING	When Supplier identifies any damaged or unusable containers.
CREATED BY	Supplier See sample on page 4-7 and explanation on 4-8. Blank form, **DENSO 00 4.1**, in section 8.
ROUTING **SUPPLIER** **DMTN/DMAT**	

DAMAGED PACKAGING REPORT

DENSO

DAMAGED PACKAGING REPORT

DMTN

TO: *Packaging Engineer* (1)

FROM: *Supplier Contact* (2)

SUPPLIER PHONE #: *123-456-7899* (3)

SUPPLIER NAME: *XYZ* (4)

PACKAGING DESCRIPTION: *Returnable 12 x 15 x 7* (5)

QTY OF PKG DAMAGED/ UNFIT FOR USE: *12 totes* (6)

REASON UNUSABLE: *Damaged* (7)

WILL THIS CAUSE A SHORTAGE: Yes [x] No [ ] (8)

(9)

USED ON PART NUMBER(S)	*TN123456-123456*

COMMENTS (10)

SUPPLIER SIGN / DATE (11)
John Doe 2/2/2000

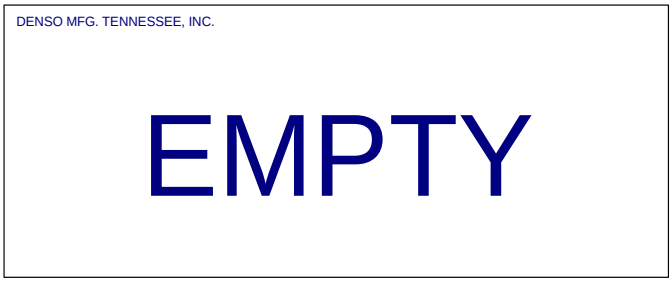
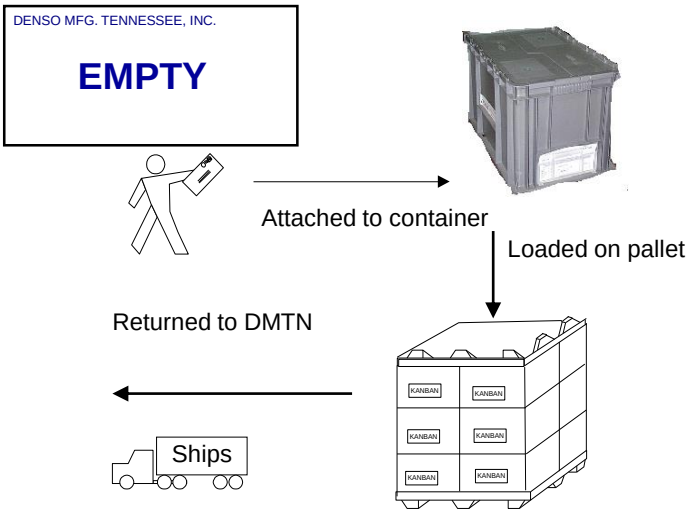
Label and send packaging back to DENSO on the next shipment.

DMTN 00 4.1

DAMAGED PACKAGING REPORT

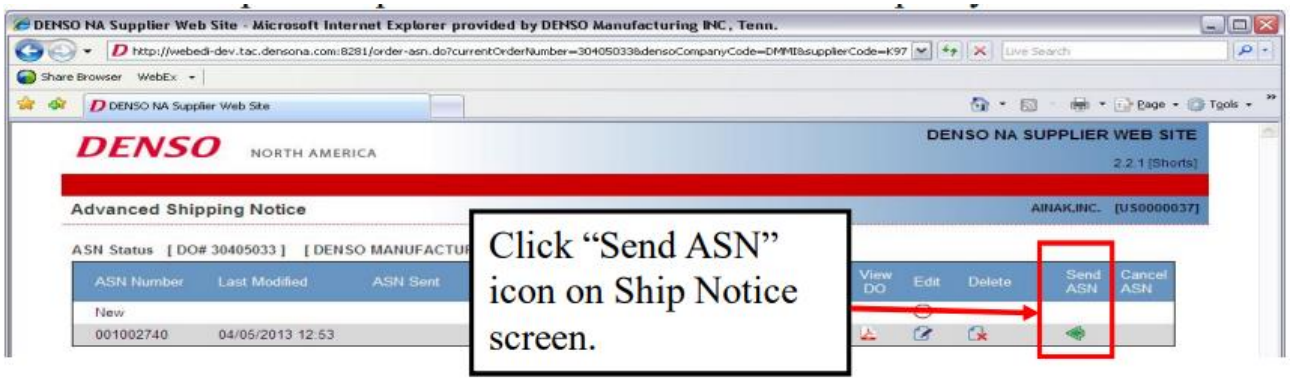
#	Item	Description	Completed By:
1	To:	DENSO packaging contact	Supplier
2	From:	Supplier contact	
3	Supplier Phone:	Supplier contact's phone number	
4	Supplier Name:	Name of supplier	
5	Packaging Description:	Indicate type of damaged packaging	
6	QTY of Packaging Damaged/ Unfit:	Indicate amount of containers damaged	
7	Reason Unusable:	Describe type of damage	
8	Will this cause a Shortage:	Indicate Yes or No by placing an X in the appropriate box	
9	Used on Part Number(s):	List part numbers which would be shipped in the damaged containers	
10	Comments:	Other information relevant to DMTN	
11	Supplier Signature:	Signature of supplier	

EMPTY PACKAGING REPORT

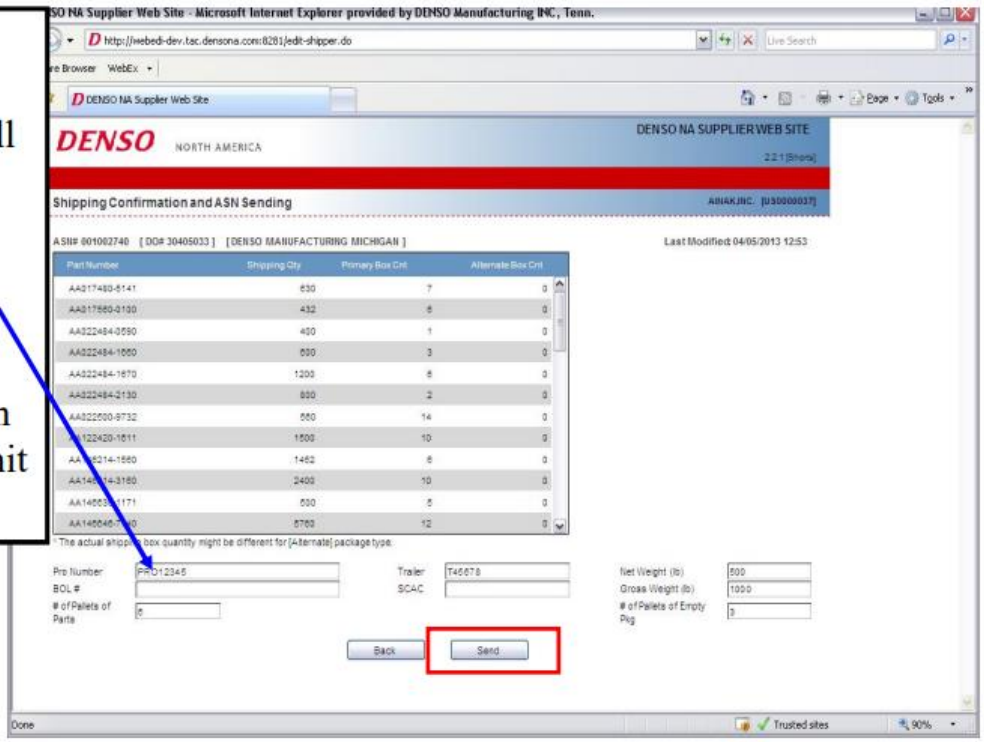
PURPOSE	To identify empty returnable containers
RESPONSIBILITY	Supplier must use, when shipping empty containers on the same pallet that contains parts.
TIMING	Every empty returnable container must have the empty kanban attached.
REQUIREMENTS	• Blank form, **DENSO 00 5.3**, found in section 8 • White 8” x 4” label attached to each container 
ROUTING	

Advanced Shipping Notice-Sending

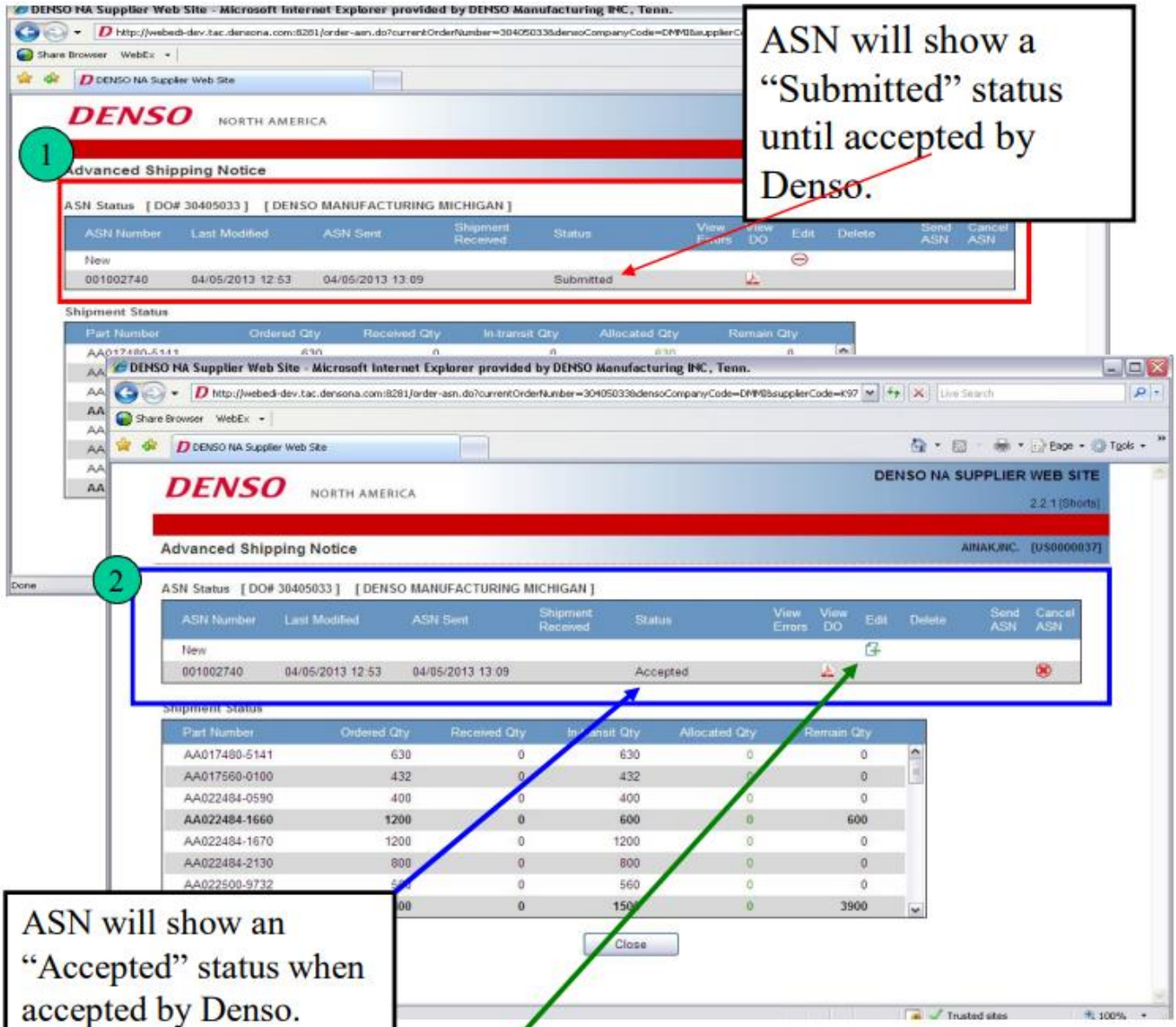
After the parts have shipped to DENSO / ASMO the ASN will be sent within 30 min after shipping (setting can be changed in CIGMA Menu Option P142). Late ASN or ASN that does not match order will generate an email to specified planners to inform them of discrepancy:



After hitting "Send ASN" button there will be a confirmation screen where fields at the bottom can be modified. When ready to send, hit "Send"

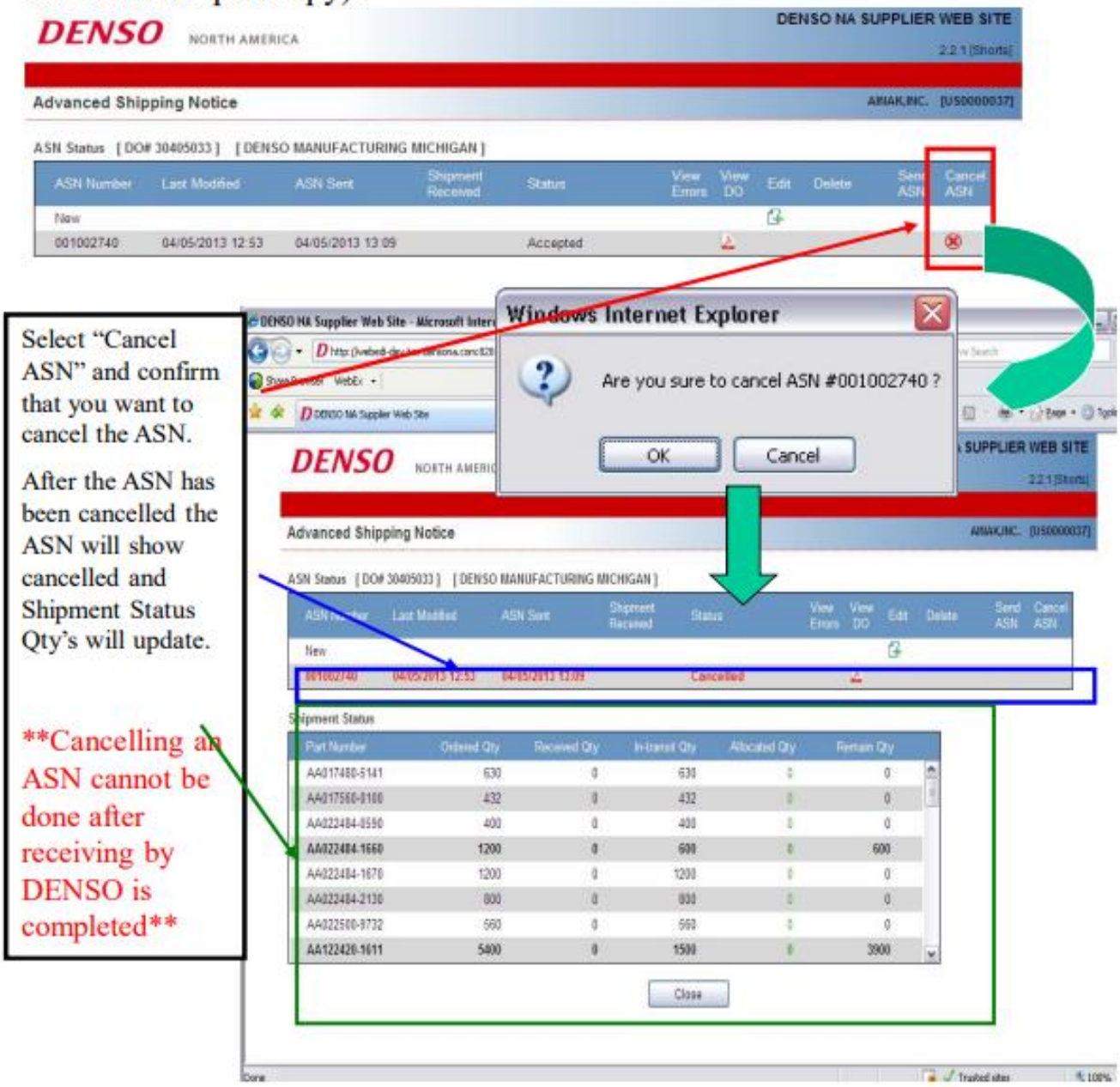


Advanced Shipping Notice-Status



Advanced Shipping Notice-Cancelling

If an ASN needs to be cancelled (for shipment that did not pick up or for a correction to part / qty):



Select "Cancel ASN" and confirm that you want to cancel the ASN.

After the ASN has been cancelled the ASN will show cancelled and Shipment Status Qty's will update.

****Cancelling an ASN cannot be done after receiving by DENSO is completed****

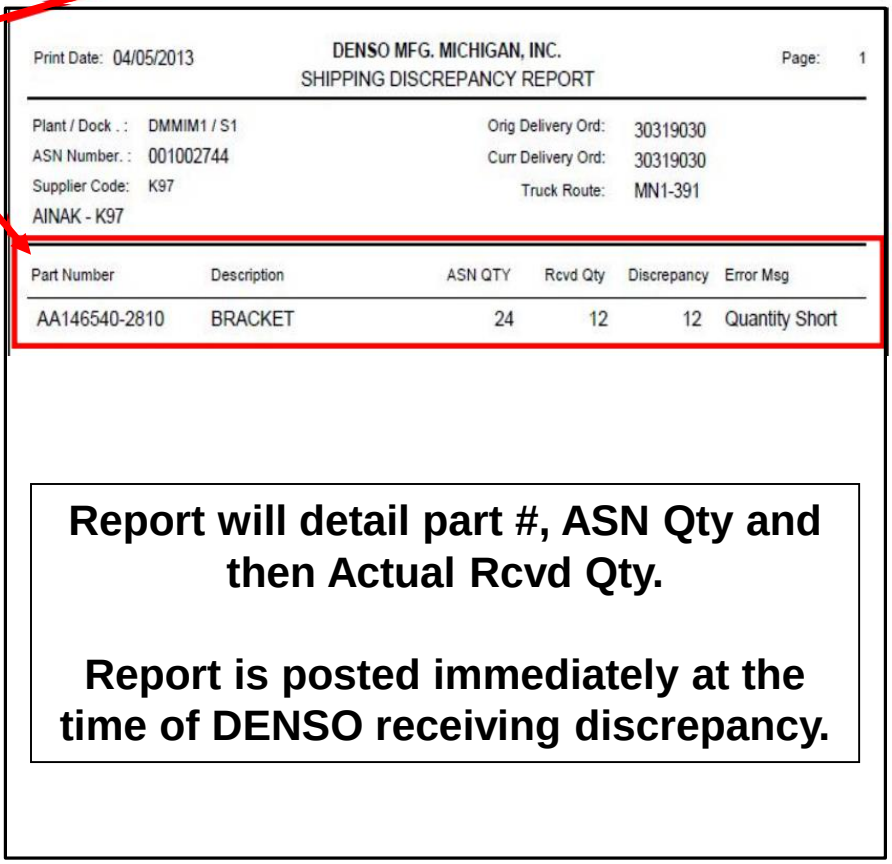
Advanced Shipping Notice-Receiving Discrepancies

ASN Status [DO# 30405033] [DENSO MANUFACTURING MICHIGAN]

ASN Number	Last Modified	ASN Sent	Shipment Received	Status	View Errors	View DO	Edit	Delete	Send ASN	Cancel ASN
New										
001002743	04/05/2013 13:29		04/05/2013	Parts Rcv w/o ASN						
001002742	04/05/2013 13:26	04/05/2013 13:27		Receiving Discrepancy						
001002740	04/05/2013 12:53	04/05/2013 13:09		Cancelled						

If physical receiving qty does not match ASN qty, a discrepancy report will be posted to NASWEB with the details.

Use this to review discrepancies and make any additional shipments or follow up with planner as required.



Print Date: 04/05/2013 — DENSO MFG. MICHIGAN, INC. — SHIPPING DISCREPANCY REPORT — Page: 1

Plant / Dock . : DMMIM1 / S1
ASN Number. : 001002744
Supplier Code: K97
AINAK - K97

Orig Delivery Ord: 30319030
Curr Delivery Ord: 30319030
Truck Route: MN1-391

Part Number	Description	ASN QTY	Rcvd Qty	Discrepancy	Error Msg
AA146540-2810	BRACKET	24	12	12	Quantity Short

Report will detail part #, ASN Qty and then Actual Rcvd Qty.

Report is posted immediately at the time of DENSO receiving discrepancy.