11 BK Specific

Packaging

1) In regards to packaging, the main focus of (Astemo)BK is to ensure that all parts will be protected against damage and contamination during transportation and storage at the most economic value possible. Returnable packaging shall be used where applicable. (Astemo)BK may assist with the packaging design and development, but (Astemo)BK is not responsible or liable for the performance of the final pack except when (Astemo)BK supplied packaging is selected.

For packaging testing standards, refer to ASTM standard D4169-05 WWW.ASTM.ORG

- 2) The first PPAP shipment shall be shipped to (Astemo)BK in mass production style packaging. A completed (Astemo)BK "Packaging Approval Sheet" (PMFORM- 40) (last two pages of this document) must be attached to the package. The complete form shall also be sent to the Supplier's Supplier Quality Assurance (SQA) contact at (Astemo)BK noting the Estimated Time of Arrival (ETA). When the packaging is received at (Astemo)BK, it will be evaluated by all involved departments for approval. If the package design is rejected, the packaging design must be improved, based on mutual agreement between (Astemo)BK and the supplier. If the supplier is unable to ship in mass production style packaging for the first PPAP shipment, they must obtain a deviation from the SQA contact.
- 3) Any hand-held container must weigh under 35 pounds.
- 4) Approved returnable packaging must be hot stamped with the owners name and address and be equipped to meet (Astemo)BK labelling requirements. Any damaged returnable packaged shall be returned to the owner by the regular freight route and labeled as "Damaged".
- 5) All returnable pallets (plastic) shall be 48 in. x 45 in. 4 entry and contain the name and address of the company that owns the pallet by either hot stamp or metal plate.
- 6) The maximum allowable height of any pack (pallet/boxes/containers, etc.) shall be 48 inches. The maximum width is 48 inches and the maximum length is 45 inches unless a larger than specified pack is approved by (Astemo)SQA contact.
- 7) All pallets shall be labeled with a master pallet label. See master label example #1 on page 3.
- All boxes on a pallet shall be labeled with the complete scannable (Astemo)BK drawing number (Part Number),
 Delivery order number, quantity, and lot code data from the manufacturer. The serial/lot code number provided should
 be comprised of data needed by the manufacturer for lot traceability in the event of a quality issue. This serial/lot code
 should also be included on the packing list. (See packing list example #4 on page 5.)

 OEM part number shall be added to all individual totes or boxes when drawing has callout seen just below for pass thru items.
 This is a pass thru component, please refer to
 sub supplier handbook Section 11 for packaging
 label requirement
- 9) For electronic parts each reel, pack, sealed or ESQA bag, stick, etc. shall be labeled with (Astemo)BK drawing number, quantity, and manufacturer lot data as outlined in #8 above.
- **10)** A pallet containing more than one part shall be labeled with a "Mixed Load" label and a label showing the quantity of each part number on the pallet.
- 11) All parts shipped on a pallet must be stacked and shipped in a full layer (no pyramiding) to allow double-stacking for the most efficient use of space. If the packaging cannot be double-stacked, it is the responsibility of the supplier to place "DO NOT STACK" labels on the top and all four sides of pallet.
- 12) If there is to be any type of packaging change made, a revised (Astemo)BK "Packaging Approval Sheet" must be submitted by the Supplier to the (Astemo)BK SQA contact along with a sample pack for inspection. The new submission will be inspected and approved by the same process as the original. (Refer to #2 above)
- 13) It is the supplier's responsibility to transmit an accurate ASN (Advanced Shipping Notice) no later than 30 minutes after every shipment leaves the supplier's facility. All suppliers have the capability to transmit an ASN either by EDI or by Hitachi's SupplyWeb. Any shipment arriving at BK without an ASN will result in a delivery score deduction which will negatively affect the supplier rating. All deductions will require corrective action stating cause and countermeasure. Any issues must be escalated to Hitachi-BK PC&L before the shipment arrives.

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(Astemo)BK Alternative Packaging Requirements

Alternative (Expendable) Containers

Any time returnable packaging is chosen, there must be an approved expendable alternative. If the approved returnable package is not available at the vendor's location, this alternative packaging must be used. A lack of returnable packaging is not a legitimate reason to miss shipment.

Alternative Pallet

The size and style of wooden pallets may vary and will depend on the size and weight of the parts. If pallet is full size, it shall be 48" W x 45" L x 5" H and be 4 way entry, notched stringer style.

(Astemo)BK Package Label Requirements

Bar Coding

Label Format

Bar code shall be Code 39 symbology and based on the AIAG Standard.

Bar codes shall be directly below all human readable characters.

No check digits shall be used with bar codes or human readable data

Data identifiers shall be included in bar codes.

	_		
\/alid	Data :	Identifiers	٠

•	part number	(P)
•	quantity	(Q)
•	vendor number	(V)
•	delivery order number	(D)
•	serial number/lot code	
		(0)

•	individual pack	(S)
•	master load	(4S)
•	mixed load	(5S)

Required Dimensions for Master Label (see example #1 on page 3)

- human readable heights
 - part number height shall be 0.5 inch (13 mm)
 - D.O. (Delivery Order Number) shall be 0.5 inch (13 mm)
 - vendor number height shall be 0.2 inch (5 mm)
 - serial number height shall be 0.2 inch (5 mm)
 - vendor name height shall be 0.1 inch (2.5 mm)
- bar heights
 - all bar heights shall be 0.5 inch (13 mm)
- average bar width
 - narrow elements shall conform to range of .013 to .017 inch (0.33 to .043 mm)
 - ratio of wide to narrow elements shall be 3:1, with acceptable range of 2.81:1 to 3.2:1
- quiet zone
 - leading and trail zones should be at least 0.25 inch (6.4 mm)
- interchange gap
 - width should be same as average narrow element bar width.
- label size
 - 4 inches (102 mm) high by 6 inches wide (153 mm)

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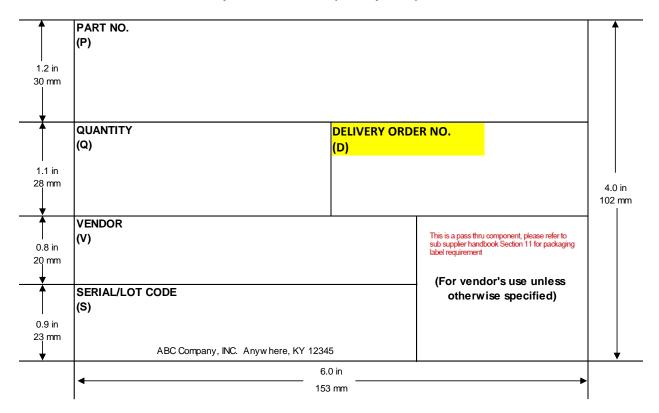
Required Dimensions for Container Label (see example #1 below)

 Label size should be 4 inches (102mm) high by 6 inches (153mm) wide unless container is too small to accommodate 4 by 6. In that case, Supplier should submit sample to (Astemo)BK for approval.

Instructions:

- There must be one master label per pallet/container/ropack
- Multiple parts included on one pallet/container/ropack requires multiple master labels on the same pallet/container/ropack.
- If you ship multiple Delivery Order numbers on a pallet a Master Label is required for each D.O. and it must be affixed to the outside of the wrapped pallet.
- Use full (Astemo)BK part number as transmitted via EDI 830 & 862. Do not deviate from the (Astemo)BK part number.
- All labels must be affixed to the outside of the container. They can not be laying inside the totes or on top of the material.
- Suppliers are responsible for the removal of all old labels from returnable containers.

Master Pallet/Container/Ropack/Box Label (Example #1)



SECTION 11 PAGE 3

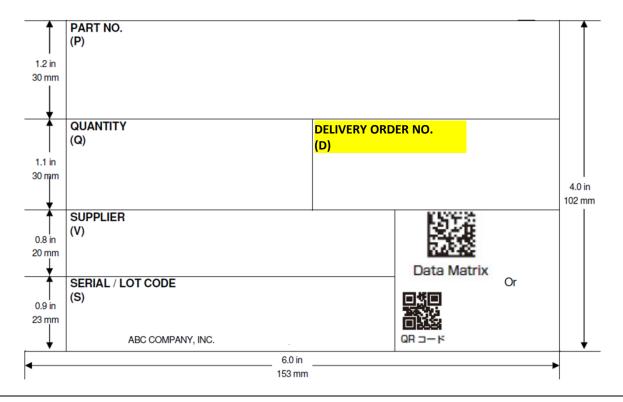
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Optional 2D Master Label Requirement

Some (Astemo) facilities have a 2D scan requirement for the Master Label. In that case, all specs stay the same except for the bar code requirement. Please check with the SQA contact of the (Astemo) site for which packaging is being supplied to ascertain if the 2D option is required.



Vendor Name Vendor Address

PACK LIST

DATE	DOCUMENT NUMBER
28-JUN-17	1021057105

SHIP TO

HITACHI AUTOMOTIVE PRODUCTS 955 WARWICK ROAD, DOCK 4 HARRODSBURG, KY 40330 USA



ECT1

267787 01

CUSTOMER ORDER	CARRIER	DELIN	VERY TERMS	BILL OF L	ADING NUMBER
R444167	FedEx 2 Day Economy - Collect	FOB	SHIPPING		
	ITEM/DESCRIPTION		UOM SH	IIPPED QTY	REFERENCE
FED-EX#: ************************************					
MANDI JONES@HITACHI-AUTI		TOMOTIVE US			
*********	ONS TO: CHARLOTTE.ALLEN@HITACHI-AU ** ACHEL.RILEY@HITACHI-AUTOMOTIVE.US	OWOTIVE.03			
0001 BMP-1 A 2500200 001 BRD I PROMISE DATE: 28-J SO LINE: 0001	MKR PRB&RECP		EACH	1.00	
Vendor lot i	number				
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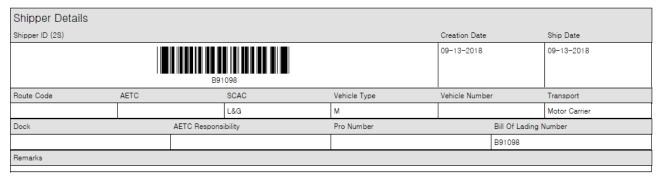
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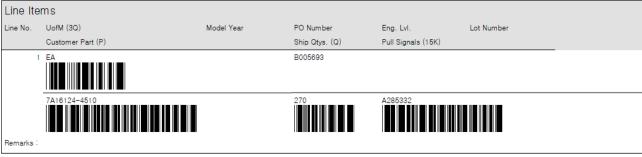
Upcoming Changes for Packing List

- Hitachi-BK will require all Suppliers to print the required packing list from SupplyWeb. All Suppliers have access. Please use the link provided from our homepage or this URL https://supplyweb.hitachi-automotive.us/supplyWeb/account/login
- Hitachi-BK will use this packing list to scan all receipts into the system for payment. This will ensure accurate up to date information is input in our system and ensure timely payment per the terms.
- The date of implementation will be January 2nd, 2019. If you have any questions or concerns please do not wait until the last minute. Any issues after January 2nd 2019 will result in a delivery performance issue

Packing List

Ship Notice			
Sold To	Ship To	Ship From	Supplier ID (V)
Hitachi Automotive Systems Americas, Inc. 955 Warwick Road Harrodsburg, KY 40330 UNITED STATES	(HIAMS) Berea South 993 301 Mayde Road Berea, KY 40403 UNITED STATES	Seymour Tubing, Inc. 1515 E. Fourth Street Seymour, IN 47274 UNITED STATES	HA0020





Hitachi Packaging Data Sheet

Hitachi Astemo Americas, Inc.

					Pace	aging L	ata Sne	et (PD	ارد					
Part Number:						Supplier Name:								
Part Name:							Contact Name:							
Program Name:							Address:							
Hitachi Contact:							City, State, Zip Code:							
Phone:							Phone:							
E-mail:							E-mail:							
Ship	Method:			Pa	ckaging	Design	/Purcha	se Rep	sonsibil	ity:	Estimated SOP Date:			
Land(Truck) ●	Sea C) Air	0	Н	Hitachi:			Supplier:						
Packaging		Outside	Packag	ing Dim	nension	s			Weight	(kg/lbs)				d Number of
Information	Len	ngth	Wi	dth	He	ight	N	et	Та	re	Gr	oss	Pieces/Pack (SNP)	
IIIOIIIatioii	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	lbs	kg	Per Box	Per Pallet
Hand Held Container														
Component	Len	ngth	Wi	dth	He	ight	We	ight	Suppl	ier Outs	ide Pro	ocess	No 🗌	Yes
Dimensions	in	mm	in	mm	in	mm	lbs	kg	If yes, ho	w many days in the process			?	
(in and mm)									What is th	ne quantity	of pack	aging?		
Pallet specifications Packaging Components Container / Box Label							er / Box Label							
Material Type: plastic Heat Treatment			eatment:	no Banded: no			Wrapped: yes			Bag		Polifoam	n Information	
Pallet dimensions	Length in		L	ength <mark>mm</mark>	0			Div				Silica Gel	Box Label I	nformation
(inches & millimeters)	Width in		_	Width mm 0			Max Stack Factor NA			Bubble W	/rap [Traceability method:	
	Height in		_ H	leight <mark>mm</mark>	0					Blister/Tray			Date	
Pallet weight	t						Packaging Type			ESD Protection			Shift	
-	Tare (lbs):		_ Ta	are (<mark>kgs</mark>):	0	Cont	tainer Internal Dunnage		Corner Support			Production li	ne 📙	
	Net (lbs):			Net (<mark>kgs</mark>):	0	Expendal	ole 🗌	Expenda	ble 🗌	Other (Specify below)			Mfg. Locatio	n 🔲
Gı	ross (<mark>lbs</mark>):	0	Gro	oss (<mark>kgs</mark>):	0	Returnab	le 🗌	Returnab	ole 🗆	VCI Pape			Julian date	
											VCI paper, r, Reel Dia	, Temperatur meter	e Indicator,	
Comments:										,		<u> </u>		
Notes:														
Packaging Contingend	ry Plan fo	r return	ahle nac	kanina:	Sunnlie	to prope	nse alter	nate nac	kaning o	r provid	e additic	nnal detai	ls on soner:	ate form
Refer to section 11 of	-		-					-		. p. 5710	- additi	actai	on sopare	
Internal Use Only:	ате зирр	nei iidil	GDOOK 10	auunio	iai pack	nig and i	a)CI 11131	1 40 (10/15	•					
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Procurement	Pkg Engineer	SQA	DE	PC	Whse/Logistics	Production	QA PLT

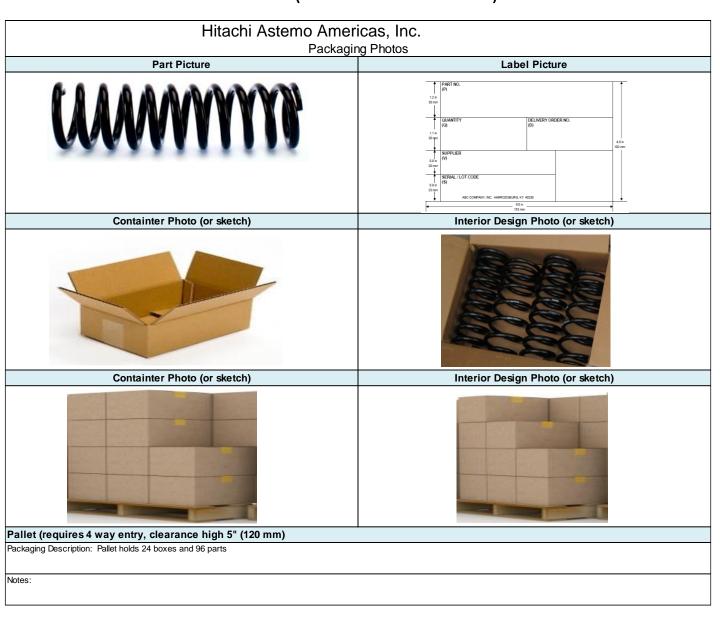
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Hitachi Packaging Data Sheet Photos (Tab 2 on data sheet)



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SECTION 11 PAGE 7

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