

Packaging

1) In regards to packaging, the main focus of (ASTEMO)AM 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)AM may assist with the packaging design and development, but (ASTEMO)AM is not responsible or liable for the performance of the final pack except when (ASTEMO)AM 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)AM in mass production style packaging. A completed (ASTEMO)AM "Packaging Approval Sheet" (PIFORM- 40) must be attached to the package. The complete form shall also be sent to the Supplier's Supplier Quality Assurance (SQA) contact at (ASTEMO)AM noting the Estimated Time of Arrival (ETA). When the packaging is received at (ASTEMO)AM, 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)AM 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 owner's name and address and be equipped to meet (ASTEMO) AM 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.
- 8) All boxes on a pallet shall be labeled with the complete (ASTEMO)AM drawing 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.)
- 9) For electronic parts each reel, pack, sealed or ESQA bag, stick, etc. shall be labeled with (ASTEMO)AM 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 the pallet.
- 12) If there is to be any type of packaging change made, a revised (ASTEMO)AM "Packaging Approval Sheet" must be submitted by the Supplier to the (ASTEMO)AM 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)

(ASTEMO)AM 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)AM Package Lab 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

No identifiers should be included in bar codes.

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) # 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)

Required Dimensions for Container Label (see example #1 on page 4)

 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)AM for approval.

Required Dimensions for Electronic Parts (see example #2 on page 4)

 Label size should be 4 inches (102mm) high by 6 inches (153mm) wide unless available space on reel/pack/bag/stick will not accommodate 4 by 6. In that case, Supplier should submit sample to (ASTEMO)AM for approval.

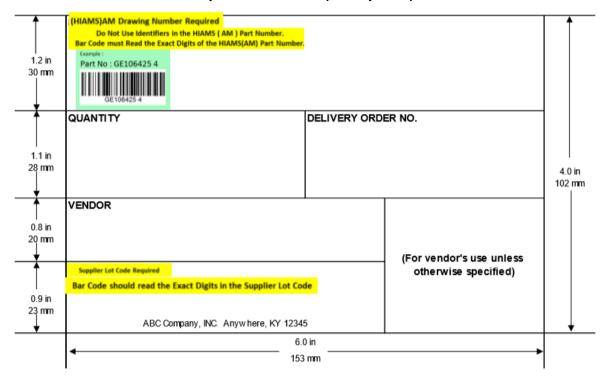
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(ASTEMO)AM Packadeabel Requirements—continued Instructions:

- 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.
- Use full (ASTEMO)AM part number as transmitted via EDI 830 & 862. Do not deviate from the (ASTEMO)AM part number.

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



Master Pallet/Container/Ropack/Box Label (Example #2)



Electronic Parts Special Requirements (example #3) Place on each reel/sealed or ESQA bag/pack/stick.

Hitachi Electronic Parts Label





Quantity:



Lot Clode:



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

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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

ITEM/DESCRIPTION FED-EX#: ************************************	UOM UOM	SHIPPED QTY	REFERENCE
FED-EX#: ************************************	MOU	SHIPPED QTY	REFERENCE
RACHEL RILEY TEL:859 734- FAX:859 734- RACHEL.RILEY@HITACHI-AUTOMOTIVE.US ************************************			
MANDI.JONES@HITACHI-AUTOMOTIVE.US CC: ALL ORDER CONFIRMATIONS TO: CHARLOTTE.ALLEN@HITACHI-AUTOMOTIVE.US INVOICES AUTO-EMAIL TO: RACHEL.RILEY@HITACHI-AUTOMOTIVE.US 0001 BMP-1 A 2500200 001 BRD MKR PRB&RECP PROMISE DATE: 28-JUN-17 SOLINE: 0001 LOCATION: STOCK BIN: LOT NUMBER: 250790300010001 Vendor lot number ULTIMATE DESTINATION: USA	EACH	1.00	1
PRINTED BY SERGIO MURGUIA 28-JUN-17 17:21:14	SO: 2141287		

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DATE: 03/02/2020

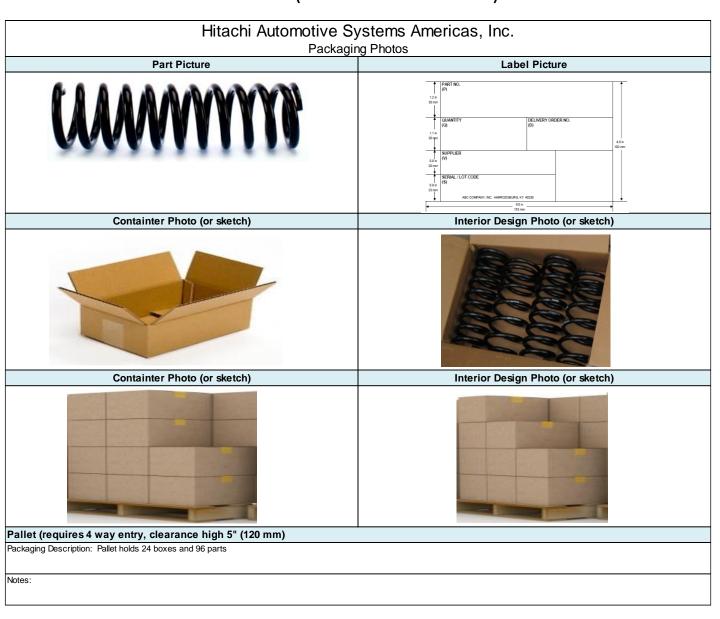
Hitachi Packaging Data Sheet

Hitachi Automotive Systems Americas, Inc.

					Pace	aging L	ata Sne	et (PD	ارد						
Part Number:							Supplie	er Name	e:						
Part Name:							Contact Name:								
Program Name:							Addres	s:							
Hitachi Contact:							City, St	ate, Zip	Code:						
Phone:					Phone:										
E-mail:							E-mail:								
Ship	Method:			Packaging Design/Purchase				se Rep	psonsibility:			Estimated SOP Date:			
Land(Truck) ●	Sea C) Air	0	Hitachi:			Supplier:								
Packaging		Outside	Packag	ing Dimensions			Weight			t(kg/lbs)			Standard Number of		
Information	Len	Length		Width		Height		Net		re	Gross		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 d	many days in the process		?		
(in and mm)									What is th	ne quantity	of pack	aging?			
Pallet specifications Packaging Components Container / Box Lab									er / Box Label						
Material Type:	plastic	plastic Heat Treatment : no			Banded:	no	Wrapped: yes			Bag	Polifoam Ir			formation	
Pallet dimensions	Length in		L	ength mm 0						Dividers		Silica Gel	Box Label I	nformation	
(inches & millimeters)	Width in		_	Width mm	o Max S		Stack Factor N/A			Bubble W	/rap [Traceability method:		
	Height in		Height mm 0								Blister/Tray			Date	
Pallet weight					I	Packaging Type			ESD Protection			Shift			
-	Tare (lbs):		_ Ta	are (<mark>kgs</mark>):	0	Cont	tainer Internal Dunnage			Corner S	upport [Production li	Production line	
	Net (lbs):			Net (<mark>kgs</mark>):	0	Expendal	ole 🗌	Expendable		Other (Specify below)			Mfg. Location		
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. 5110	- additi	actai	on sopure		
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

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



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