



Sound Solutions for the Automotive Industry®

Product Engineering Drawing Management System

07/27/2011

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Product Engineering Drawing Management System

07/27/2011

Overview

The Drawing Management System is a web-based application that allows the Product Engineering Group to define, maintain and track UGN Drawings for parts, of which can be finished goods, raw materials, or others. It provides the ability to update the drawings, send notifications to a pre-defined list of users of the completion of the drawings, and identify the bill of materials of parts before going into production. No sign-on is needed to connect to the Drawing Management Forms. The users are authenticated automatically behind the scenes based on who is logged into the computer with the network user name and password.

There are several sections:

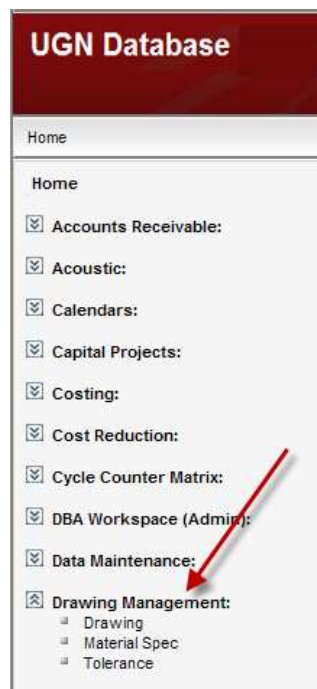
- 1) DMS Drawings – UGN Drawings contained in a system for tracking and notification.
- 2) Material Specifications – Specific notes and supporting documentation for raw materials purchased.

Who can use this application?

- 1) Anyone with a UGN Database account may have read only rights can access this module.
- 2) Team members from the Product Development department may create or change the information.
- 3) Costing, Packaging, and Quality Engineering team members may update the BPCS part numbers, customer information, vendor information, and/or packaging information.

UGN Database Menu

- How to connect: The pages are located under the “Drawing Management” folder of the UGN Database.





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Drawing Search/List

- Team Members can search for drawing on the search/list page. As a default, only production drawings are shown. However, users can change the setting to find others. In the list of results, either the details of the drawing can be selected by clicking on the drawing number or the PDF-Preview can be selected by clicking on the preview icon to see a printer-friendly version. Product Development team members can click the “add” button at the top of the screen to create a new drawing.

Search for Drawing

Review existing data or press to enter new data.

Partial Searches can be completed by placing % before or after text.

Drawing No:	<input type="text"/>	Customer Part No:	<input type="text"/>
BPCS Part No:	<input type="text"/>	Part Name:	<input type="text"/>
Commodity:	<input type="text"/>	Designation Type:	<input type="text"/>
Make:	<input type="text"/>	Various Text Fields:	<input type="text"/>
Program:	<input type="text"/>	Year:	<input type="text"/>
Drawing Release Type:	<input type="text"/>	Drawing Status:	<input type="text"/>
Customer (SOLDTO / CABBV):	<input type="text"/>		

Advanced Search

☐ Keep advanced search open

Construction:	<input type="text"/>	Drawing By Engineer:	<input type="text"/>
Family-SubFamily:	<input type="text"/>	Density Value:	<input type="text"/>
Purchased Good:	<input type="text"/>	Last Updated On (End Range):	<input type="text"/>
Product Technology:	<input type="text"/>		
Last Updated On (Begin Range):	<input type="text"/>		

Use the parameters above to filter the list below

Page: 1 of 94 >> >|

Drawing No.	BPCS Part No.	Drawing Name	Density	AMD	WMD	Release Type	Status	Preview
0202-00002-1(00)	6340	Resin Base Level Drawing	0.0000	0.0000	0.0000	Production	Issued	
0303-00005-1(00)	5248	SHODDY - SYNTHETIC / COTTON BLEND	0.0000	0.0000	0.0000	Production	Issued	
0303-00007-1(00)	5347	FR SHODDY - SYNTHETIC / COTTON BLEND	0.0000	0.0000	0.0000	Production	Issued	
0303-00008-1(00)	5387	SHODDY - SYNTHETIC / COTTON BLEND	0.0000	0.0000	0.0000	Production	Issued	
0403-00002-1(01)	6343	TACA Fiber Base Level Drawing	0.0000	0.0000	0.0000	Production	Issued	
0403-00003-1(00)	6344	NCF Fiber Base Level Drawing	0.0000	0.0000	0.0000	Production	Issued	



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Drawing Details

- Team Members with administrator rights can edit or make new versions of existing drawings on this page. There are several tabs.
- At the **top** of the page, the drawing number is shown. The drawing number is based on the “sub-family” of parts and the dimension of the part. It will increment sequentially as needed and also have revisions as needed. Product Development team members can copy an existing drawing as a brand new sequence of numbers, keep the same sequence but modify the step, or keep the sequence and step while updating a revision. Drawings that have NOT been issued can be voided. Drawings that have been completed can be “released.” Upon release, team members assigned on the “principals” tab will be notified. If an ECI has been released referring to this drawing, it will be shown. The last person and date of when this drawing was edited is shown. The date of release and status is shown. A revision can only be made to the last revision of the drawing.
- At the **bottom** of the page are a few buttons:
 - Save – update the drawing
 - Reset – Refresh the page since the last time it was saved.
 - Compare Revisions – highlights the difference between the current drawing and the previous drawing.
 - Preview – shows the drawing in a PDF format.
 - Check box to include BOM – shows a popup of all child and grand-child drawings. The user would select which drawings to include inside of the PDF file.
- Identification:** how the drawing/part is categorized and what customer, if any, would use this. This can be updated after the drawing is issued. Some categories are commodity, program, sub-family, purchased good, and product technology. These lists are also fully shown in the “Data Maintenance” section of the UGN Database and are used in all UGN Database modules. Users can update the release type of the drawing on this tab or navigate with hyperlinks to the previous or next revision of the drawing.

Drawing Detail

Drawing No: X3401-00054-1(37)	Last Updated By: rcarlson
SUBARU LEGACY FINISHED CARPET - NEEDLE PUNCHED STUDY	Last Updated On: 07/15/2011
BPCS Part No: Revision:	Current Status: New
ECI No:	Date Issued/Released:

<input type="button" value="Void"/>	<input type="button" value="Copy for New Part"/>	<input type="button" value="Create Revision"/>	<input type="button" value="Create new Step"/>	<input type="button" value="Release (Send Notification)"/>
-------------------------------------	--	--	--	--

<input type="button" value="Identification"/>	<input type="button" value="Specifications"/>	<input type="button" value="Bill Of Materials"/>	<input type="button" value="Principals"/>	<input type="button" value="BPCS Assignments"/>	<input type="button" value="Packaging and Inspection"/>
---	---	--	---	---	---

Drawing Name:	SUBARU LEGACY FINISHED CARPET - NEEDLE PUNCHED STUDY
Drawing Release Type:	<input type="button" value="Candidate"/> <small>Change Sub-Drawing Release Types</small>
	<small>Open Previous Drawing Revision</small>
* Initial Dimension and Density:	<input type="text" value="00"/> <small>**Inserted into the Drawing No.</small>
* Process Step No.:	<input type="text" value="1"/> <small>**Inserted into the Drawing No.</small>
Comments:	<div>E25 LEGACY NEEDLE PUNCHED CARPET ASSEMBLY PROPOSAL PER RFQ 17135</div>
Designation Type:	<input type="text"/>
Family:	<input type="text" value="Parts To Customer (34)"/>
* Sub-Family:	<input type="text" value="Parts To Customer - Trims (3401)"/>
Commodity:	<input type="text" value="Carpet"/>
Product Technology:	<input type="text" value="Carpet"/>
Purchased Good:	<input type="text"/>
Customer Part No:	<input type="text"/>
	<input type="button" value="Save"/>



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Make:

Program:

Year:

Customer:

Make	Program	Year	Customer	
SUBARU	EZ5 OUTBACK	2009	1370 SUBARU SUBARU OF INDIANA	

☐ Include BOM on drawing preview

- **Specifications:** Fields describing the dimensions and construction of the part are entered on this tab. These fields are locked after the drawing is issued. For released drawings, an "edit" button will appear at the top of the screen to allow Product Development team members. This will allow them to fix clerical errors that occur but is NOT intended to make significant changes to the drawing. For important changes that would affect production, team members should create a new drawing or make a revision of the drawing. Depending on the type of drawing layout, either an image will be automatically assigned to the drawing or a manual image can be uploaded. Please preview the drawing in PDF format to make sure it would be easily viewable to other users before releasing the drawing. The tolerance type can be added or edited on the "Tolerance" web page on the UGNDB tree menu.

Product Engineering has approved vendor name(s)/material(s) which meet this print. See separate list. Only approved listed materials may be used.

Construction:

Tolerance Type:

Density Value: Tolerance: Units:

Thickness Value: Tolerance: Units:

Drawing Layout Type:

Upload DMS

Drawing Image:

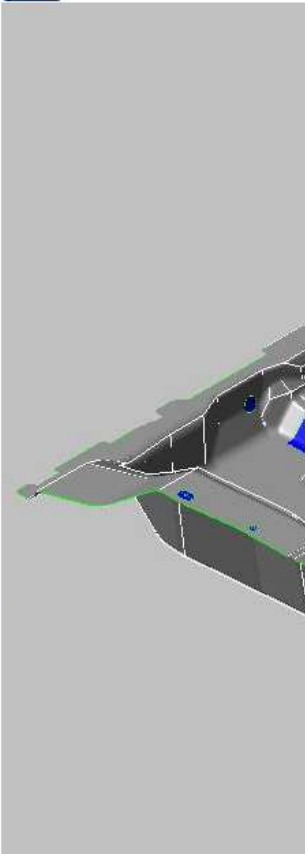
Dim 1: Tolerance:

Dim 2: Tolerance:

Notes:

Revision Notes:

UGN CAD Drawing: ☐






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Product Engineering Drawing Management System

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- **Bill of Materials** – The bill of materials tab will present child and grand-child drawings in a tree/grid view. New sub-drawings may be added from this tab. To edit or delete the child drawing information, popup windows will appear. Team members may click on the actual sub-drawing to see all details of the sub-drawing. Information about “grand-child” parts must be editing by opening the child itself and using its bill of materials tab. There is also a button called “Manage Parent Parts” which allows the Product Development team member to increment all parents to a new version and release types. Finally, there is a link that will show all parents that use the current drawing, sort of a reverse of the bill of materials.

Identification Specifications **Bill Of Materials** Principals BPCS Assignments Packaging and Inspection

Sub-DrawingNo: 

CAD Available: ☐

Quantity:

Notes:

Process:

Process Parameters:

View BOM with this Drawing as the top (Printer Friendly View)

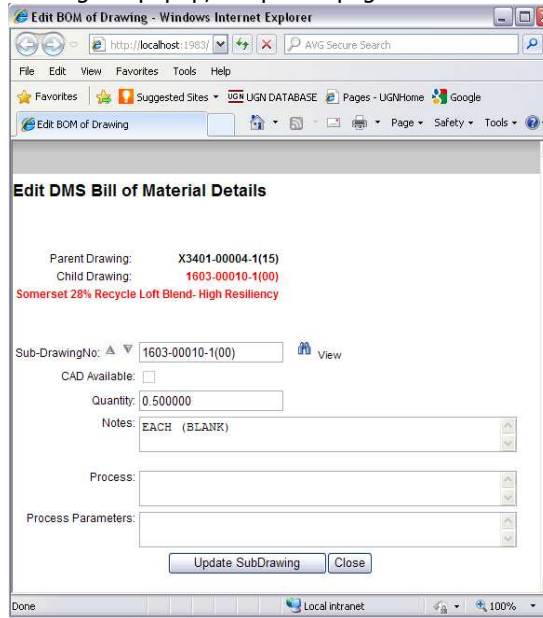
☐ X3401-00004-1(15) - CARPET ASSY - 2PX RR FLOOR (SEDAN TYPE A & TYPE B)

Sub-Drawing	Name	BPCS Part No	QUANTITY	Notes	Process	Process Parameters	Edit	Delete
☐ 1603-00010-1(00)	Somerset 28% Recycle Loft Blend- High Resiliency		0.500000	EACH (BLANK)				

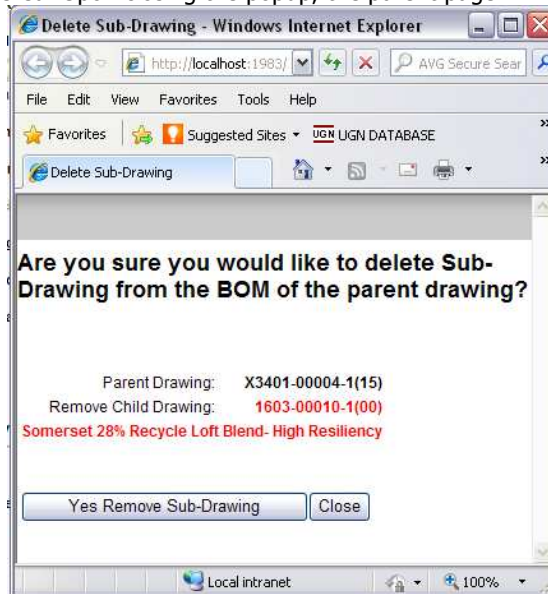
Sub-Drawing	Name	BPCS Part No	QUANTITY	Notes	Process	Process Parameters
x0302-00001-1(00)	PET STAPLE FIBER		39.000000	% Staple		
x0303-00001-1(00)	SHODDY - HIGH COTTON CONTENT		16.000000	% Shoddy (CHOOSE ONE)		

Find Where Used (WARNING: THIS COULD TAKE A FEW MINUTES!)

- **Popup Window - Editing the Bill of Materials** – To edit an existing sub-drawing as it relates to the bill of materials of a drawing, the following popup will occur. If the drawing has already been released, it will require a comment to be entered. Upon closing the popup, the parent page will refresh.



- **Popup Window - Delete the Bill of Materials Popup** - To remove an existing sub-drawing as it relates to the bill of materials of a drawing, the following popup will occur. If the drawing has already been released, it will require a comment to be entered. Upon closing the popup, the parent page will refresh.





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- **Manage Parent Drawing** – To create new revisions of all parent drawings and update their revision notes, the following web page can be used. Either the new child revision can be selected or an alternative drawing can be selected. This will create new revisions of all parents and insert the new drawing inside of its bill of materials.

Manage Parents of Child Drawing

Current Child Revision:

New Child Revision: Alternative Drawing:

Release Type for the New Parent Drawings that will be generated:

Add Revision Notes that will be added to each selected parent:

Add Revision Notes that will be added to each selected grandparent:

Check each box to select:

Below is a list of parent drawings that use the CURRENT Child Revision.

- ▼ 0303-00007-1(00) - FR SHODDY - SYNTHETIC / COTTON BLEND
 - ▼ ☒ 1603-00004-1(00) - Somerset 28% Recycle FR Loft Blend
 - ▼ ☒ 1603-06005-1(02) - FELT LOFT 600G/M2
 - ▶ ☒ 3416-18002-1(07) - REAR WHEELHOUSE RUL TYPE
 - ▶ ☒ 1603-00006-1(00) - Somerset 40% Recycle FR Loft Blend
 - ▶ ☒ 1603-00007-1(00) - Somerset 40% Recycle FR Loft for Carpet Pads Blend
 - ▶ ☒ 1603-00008-1(00) - Somerset 28% Recycle FR Loft for Carpet Pads Blend

Please Note: Each checked box will receive a new revision with the selected release type. The New Child Revision (or alternative drawing) will be entered into the BOM of the new parent.

- **Principals** – When the Product Development team member releases a drawing all designated roles get notified as well as any desired UGN Database team member.

**** NOTE: At a minimum, at least a Process Engineer and a Quality Engineer need to be defined.**

Date Notification Sent:

Engineer:

Drawing By:

Checked By:

Process Engineer:

Quality Engineer:

Notification List

Name	
Hinkleman, Dan	
Watanabe, Yuji	
Theos, Tracy	
Cade, Dan	
Hall, Bryan	
Rader, Curt	
<input type="text"/>	









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- **BPCS Assignments** – One or many BPCS Part numbers can be assigned to the DMS Drawing. This can be updated at any time by the Product Development, Costing, Packaging, or Quality Engineer.

Identification Specifications Bill Of Materials Principals **BPCS Assignments** Packaging and Inspection

BPCS PartNo	Rev.	BPCS Part Name	
04780516AD	01	RE/CHRYSLER LH/FRT FLR PAN FR	 
04780517AC	01	RE/CHRYSLER LH/FRT FLR PAN FR	 
<input type="text"/>	<input type="text"/>		 

- **Packaging and Inspection** – Vendor and instructions for packaging may be entered here by the same users who can update the BPCS assignments. Again, this can be edited any time. An asterisk will appear next to this tab's title if data exists.

Identification Specifications Bill Of Materials Principals BPCS Assignments **Packaging and Inspection**

Approved Vendor	Brand / PartNo / Approval Date	Notes
<div>11689 BOSTIK, INC. </div> <div>Sub Vendor Name: <input type="text"/></div>	<div>Brand: <input type="text"/></div> <div>PartNo: <input type="text"/></div> <div>Approval Date: <input type="text"/> </div>	<div> </div>

Unapproved Vendor	Notes
<div>Jawa Droid Factory </div>	<div> </div>

Packaging Instructions:

200 char(s) remaining.

Incoming Inspection Comments:

(Printer Friendly View of Packaging Info ONLY)



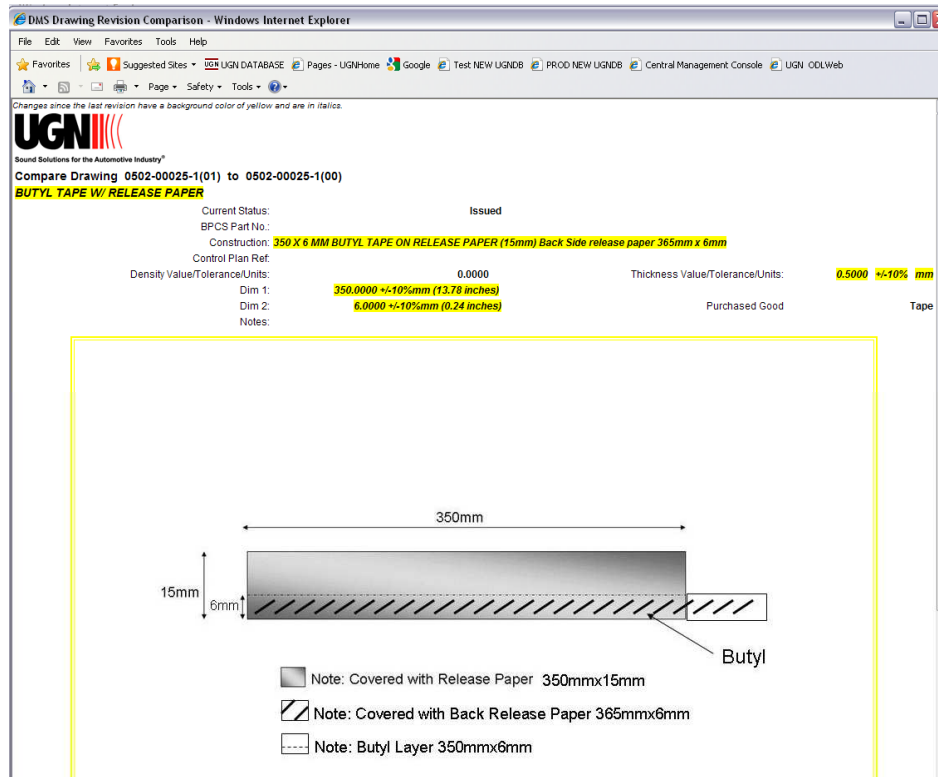
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Compare Drawing Revisions:

- Team Members can compare DMS Drawings by clicking the “compare revisions” button on the lower portion of the drawing detail page. Items that are highlighted in yellow have changed since the previous drawing’s revision.





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Drawing Preview:

- Several pages may appear in the PDF file of the drawing preview.
 - The first page shows part identification, dimensions, construction, revision notes, and the engineers involved. Depending upon the amount of data, this information may spill over to a next page.

http://localhost:1983/Test_UGNDB/(S(b15kxeu4xrcpr5eym2fe24qv))/PE/DMSDrawingPreview.aspx?Drawin - Windows Internet Explorer

File Edit Go To Favorites Help

1 / 4 100% Find



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Drawing Management System

X3401-00039-1(17)

Copy Printed On: 07/26/2011
Date Issued / Released: 05/21/2010

Drawing Name: CARPET ASSY FR FLOOR - 2NX 2WD
BPCS Part Name:

Drawing Details

BPCS PartNo: Rev.:

Construction: POROUS POLYBACK ABSORBER-BARRIER-ABSORBER CONCEPT CARPET

Notes: A-09-05238 CUSTOMER DRAWING LEVEL. 3840G WEIGHT. PLEASE SEE BOM ITEMS FOR DETAILS.

RevisionNotes: (17):UPDATED STAPLES. Updated BOM test test test Updated BOM test
(16):CHANGED FRONT HOOK STAPLES TO LOW-CRIMP-HEIGHT STAPLES.
(15):UPDATED HOOKS PER DESIGN CHANGE (DOGHOUSE GOING DOWN). UPDATED CHIP FOAM -> PE FOAM
BLOCK IN FUEL DOOR RELEASE AREA: X2201-30007-1(01) -> 2201-30017-1(01)
(14):UPDATED HEEL STOPPER. REMOVED SMALL PROTECTOR PER MI.
(13):FELT ANTI-SQUEAK TAPE UPDATED. PLEASE FOLLOW BOM OF SPACER/FELT ASSY FOR CHANGED TAPE.
UPDATED CUSTOMER DESIGN LEVEL
(12):Added red plate to heel stopper
(11):CORRECTED THE NUMBER OF LARGE CARPET PROTECTORS 1 -> 2
(10):UPDATED CARPET PROTECTORS TO REFLECT SOLUTION-BASED ADHESIVE.
(09):CHANGED DRAWINGS FOR HOOK AND CLIP ASSEMBLY, BUT NO TECHNICAL CONTENT CHANGE.
(08):ADDED CARPET PROTECTORS PER HONDA MI ED8-2-1509
(07):CHANGED CLIPS IN HOOKS PER DESIGN UPDATE. RH CLIP CHANGED TO COMMON WITH 2010MY 2PX. LEFT
CLIP (THICKER METAL) ALSO CHANGED.
(06):UPDATED TO REFLECT SEPARATE BLEND FOR HONDA CARPETS AND TO REFLECT CARPET COMING IN AS
ROLLS.
(05):UPDATED DIE-CUTS TO REFLECT REDUCED GLUE USAGE IN THEIR PRODUCTION
(04):UPDATED CARPET FACING TO REFLECT PROPER COLOR CODE
(03):UPDATED WEIGHT OF PART PER CUSTOMER PRINT. ANTI-SQUEAK FELT INCORPORATED INTO EPP
SUB-ASSY AS IN 2PX. LOFT ADJUSTED TO CURRENT PRODUCTION 2PX LOFT. NEEDLED CARPET FACING
ADJUSTED TO CORRECT WEIGHT. HEEL STOPPER ADJUSTED TO REFLECT SEPARATE 2NX DESIGN. SEPARATED
4WD TO SEPARATE PART. FUEL DOOR FILLER EPP -> PUR CHIP FOAM. UPDATED HOOKS AND CLIPS. MAT HOOKS
NOW COMMON TO 2PX.
(02):ADJUSTED FACING TO REFLECT NEEDLED FACING INSTEAD OF TUFTED.
(01):ADJUSTED MAT HOOK TO REFLECT DESIGN WITH LESSER ENGAGEMENT DEPTH PER CUSTOMER PRINT.

Dim 1: 2.00 -0/+40 Engineer: Ames, Derek



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- The second page will show the immediate child list of sub drawings, if they exist. If a sub-drawing contains sub-drawings, then a “plus” sign will be shown as an indicator. Sub-drawings will be hyperlinks to navigate.

http://localhost:1983/Test_UGNDB/(S(b15kxeu4xrcpr5eym2fe24qv))/PE/DMSDrawingPreview.aspx?Drawin - Windows Internet Explorer

File Edit Go To Favorites Help

3 / 4 100% Find

**Drawing Management System**
X3401-00039-1(17)
Copy Printed On: 07/26/2011
Date Issued / Released: 05/21/2010

Drawing Name: CARPET ASSY FR FLOOR - 2NX 2WD
BPCS Part Name:

Bill of Materials (Below is a list of child drawings only. To see grandchildren, please open that specific drawing)


Sub-Drawing No	Name	BPCS No	Release Type	Quantity	Notes	Process Proposed	Process Parameters
2201-30015-2(03)	HEEL STOPPER ASSY (EPP AND RED PP PLATE) - TP6	5402	Candidate	2.000000	EACH 1		
3001-00018-1(02)	LOW CRIMP HEIGHT STAPLE NATURAL COLOR (SILVER)	5444	Candidate	4.000000	EACH		
3001-00016-1(00)	MATERIAL IDENTIFICATION LABEL	5316	Candidate	1.000000	EACH		
3603-00074-1(02)	HOOK ASSY - 2010MY 2PK FRONT	5407	Production	2.000000	EACH		
3603-00076-1(02)	HOOK ASSY - 2NX LEFT	5412	Production	2.000000	EACH		
X0503-00002-1(00)	Adhesive mass production applied	5138	Candidate	15.900000	G		
X0503-00003-1(01)	Adhesive mass production applied		Production	40.800000	G		
X1605-10002-1(06)	1000G/M2 THERMOPLASTIC FELT FOR LOFT	5304	Production	0.500000	EACH		
X2002-40009-1(03)	NEEDED CARPET FACING	5311	Production	2.109.000000	MM PULL (2 OUT)		
X2101-00010-1(03)	Barrier and Felt Composite	5125	Production	1.000000	EACH		
X2101-00011-1(03)	Barrier and Felt Composite	5124	Production	1.000000	EACH		
X2101-00012-1(04)	Barrier and Felt Composite	5126	Production	1.000000	EACH		
X2101-00013-1(04)	Barrier and Felt Composite	5127	Production	1.000000	EACH		
X2201-00002-2(02)	Spacers EPP with Anti-Squeak Tape		Candidate	1.000000	EACH		
X2201-00003-2(04)	Spacers EPP with Anti-Squeak Tape		Candidate	1.000000	EACH		
X2201-00004-1(02)	Spacers EPP	5159	Production	1.000000	EACH		
X2201-00005-1(02)	Spacers EPP	5158	Production	1.000000	EACH		
X2202-00001-1(02)	CUSHION PUR FOAM WITH PSA FOR MAT HOOK	5134	Candidate	1.000000	EACH		
X2301-00001-1(02)	COVER FRONT CARPET (LARGE)	5457	Production	2.000000	EACH		
X3001-00010-1(00)	STAPLE NATURAL COLOR (SILVER)	6272	Candidate	6.000000	EACH		
X3019-00001-1(00)	FASTENER - VELCRO LOOP SIDE WITH PSA BACKING	5136	Production	1.000000	EACH		
X3603-00005-1(01)	HOLDER FLOOR MAT (MALE)	6241	Production	2.000000	EACH		
X3603-00006-1(00)	HOLDER FLOOR MAT (FEMALE)	6242	Production	2.000000	EACH		

- The third page shows the image of the drawing.

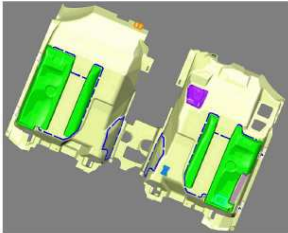
http://localhost:1983/Test_UGNDB/(S(b15kxeu4xrcpr5eym2fe24qv))/PE/DMSDrawingPreview.aspx?Drawin - Windows Internet Explorer

File Edit Go To Favorites Help

4 / 4 100% Find

**Drawing Management System**
X3401-00039-1(17)
Copy Printed On: 07/26/2011
Date Issued / Released: 05/21/2010

Drawing Name: CARPET ASSY FR FLOOR - 2NX 2WD
BPCS Part Name:



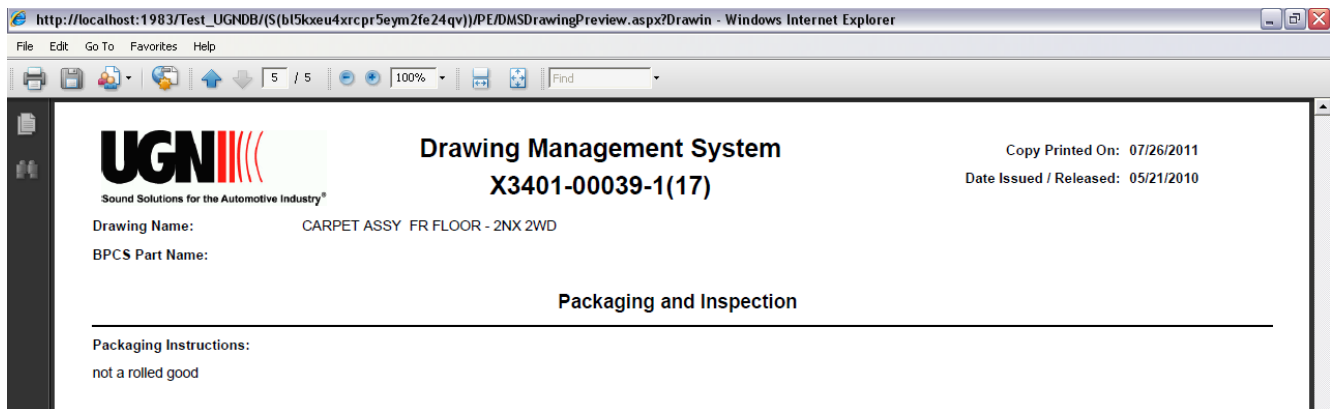


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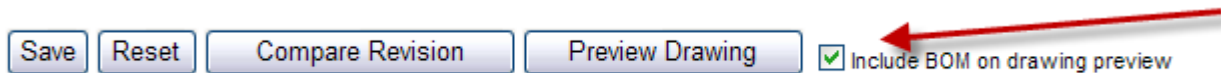
07/27/2011

- The final page will show packaging information if it exists. The list of vendors is NOT shown on this preview due to security reasons.

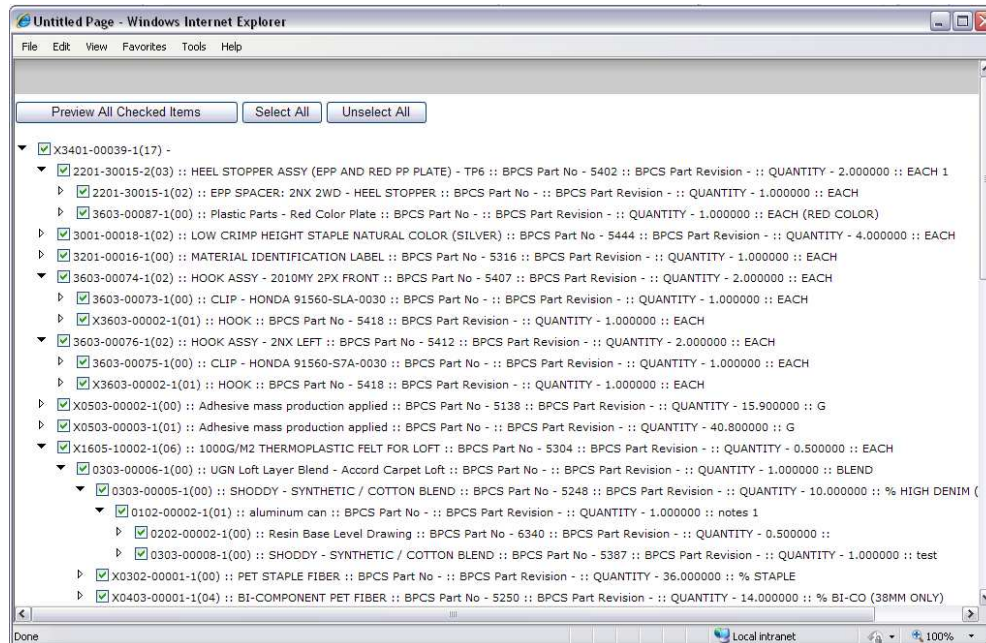


Include BOM in PDF

- Team Members may include sub-drawings in the PDF as they preview it by going to the drawing details page and clicking the check box that says "Include BOM on drawing preview."



- The following popup will be presented. Users can check and uncheck any and all sub-drawings.





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Drawing Tolerance

- The Drawing Tolerance screen allows engineers with “administrative” rights to automate some of the settings on a drawing. Multiple drawings could have similar numbers. The engineer can select the tolerance name of the drawing detail screen, on the specifications tab, and the measurement fields will be populated with the settings defined below.

Drawing Management Tolerance Dropdown Maintenance

Partial Searches can be completed by placing % before or after text.

Tolerance Name:

Name	Density Val	Density Tol	Density Units	Thick Val	Thick Tol	Thick Units	WMD Val	WMD Tol	WMD Units	AMD Val	AMD Tol	AMD Units	Obsolete
Felt Pad (Hobbs, etc.)	0	+/-10%		0			0			0			<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

Material Specification Search/List

- In order to identify specifications for some materials associated with DMS drawings, a screen has been created to create revisions of specifications and allow supporting documents.
- Below is the search/list screen to search by Material Specification number, sub-family and description.

Material Specification - List and Search

Partial Searches can be completed by placing % before or after text.

Review existing data or press to enter a new material specification.

Material Specification No: Desc:

Family-SubFamily:

Page: 1 of 2 >> >|

Material Specification No.	Description	Revision Date	Area Weight	Sub-Family
2402-0987-001(00)	donuts	07/15/2011	0987	2402
2402-0987-001(01)	donuts	07/15/2011	0987	2402
2402-0987-001(02)	donuts	07/25/2011	0987	2402
2402-1234-001(00)	test	07/26/2011	1234	2402
3203-0013-001(00)	extra cheese	03/04/2011	0013	3203
3501-1234-001(00)	peppers	07/14/2011	1234	3501
3501-1234-001(01)	peppers again	07/14/2011	1234	3501
3501-1234-001(02)	peppers again	07/14/2011	1234	3501
3501-1234-001(03)	peppers again	07/15/2011	1234	3501



Sound Solutions for the Automotive Industry®

Product Engineering Drawing Management System

07/27/2011

Material Specification Detail

- Each specification will be identified uniquely by the Sub-Family and Area Weight. From there, it will be incremented by sequence and revision. The sub-family and area weight will be locked once it is initially created.
- A dropdown box will contain all revisions of the same base Materials Specification number. The user can switch between revisions to compare.
- Supporting documents can be uploaded. These documents can be PDF, DOC, XSL, JPEF, or TIF and NO LARGER THAN 3.5MB.
- Associated drawings can be assigned to the material specification.

Material Specification - Detail

All Revisions of this type of materials specification:

3501-1234-001(00) ▼

Material Specification No.: 3501-1234-001(00)

Revision Date: 07/14/2011

* Sub-Family: Parts Metal - Stamped (3501) ▼

* Initial Area Weight: 1234 **Inserted into the Material Spec No.

Description:

peppers

Update

File Description:

Upload a supporting (PDF,DOC,XLS,JPEG,TIF) file under 3 MB:

Browse...

Upload

Supporting Document Name	Description	
8.06 Item Transaction Listing.doc	test2	

Drawings associated to this material specification

DrawingNo	Notes	
0202-00002-1(00)	first drawing note	
0303-00005-1(00)	second drawing note	
<input type="text"/>	<input type="text"/>	