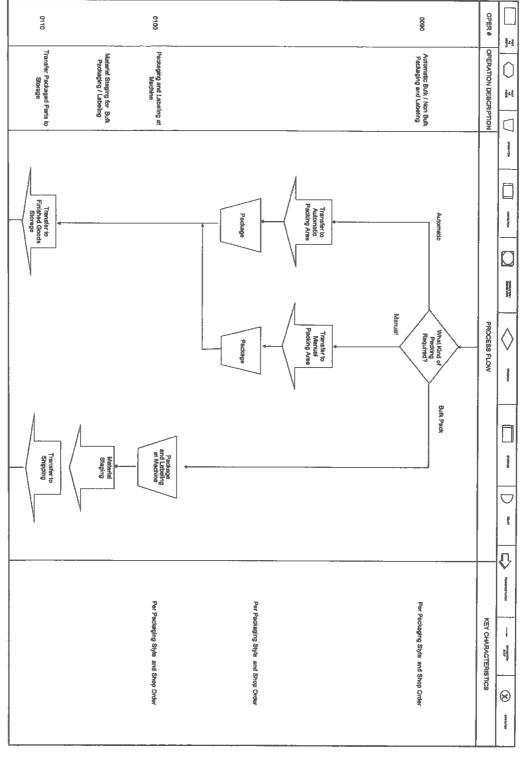


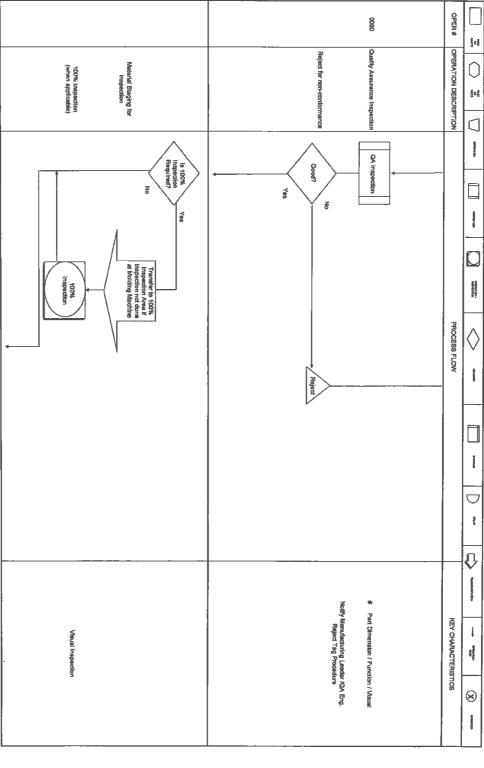
Sumitomo Electric Wiring Systems, INC.-Components Division

Sumitomo Electric Wiring Systems, INC. Components Division

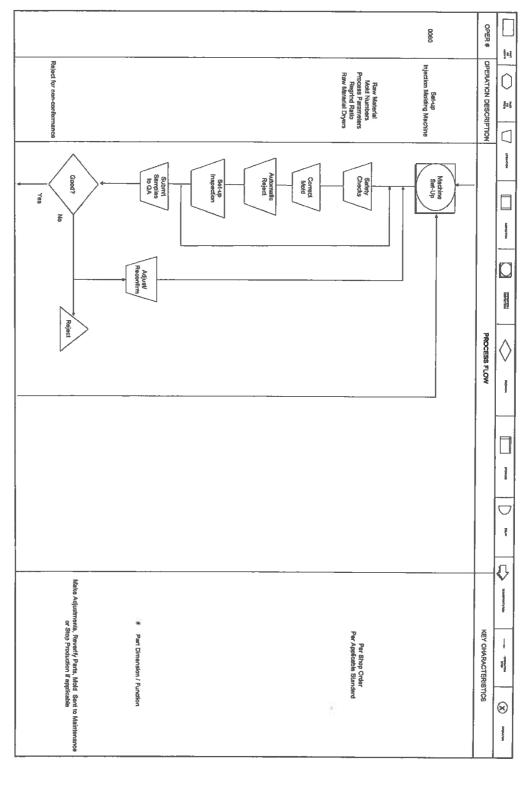


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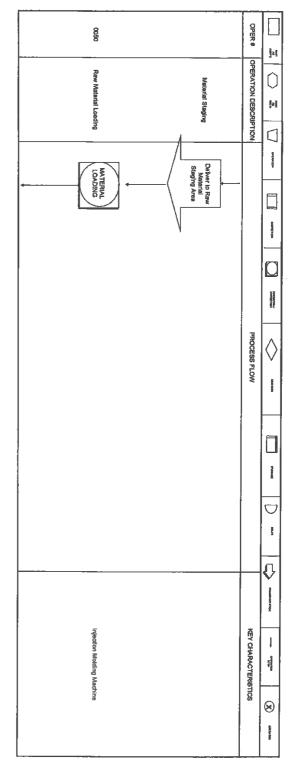
Sumitomo Electric Wiring Systems, INC.-Components Division



Sumitomo Electric Wiring Systems, INC.-Components Division



Sumitomo Electric Wiring Systems, INC.-Components Division



hjed Drightel Deta: 5/10/86 Last Revision : 200/01

Improper storage

SUMITOMO ELECTRIC WIRING SYSTEMS, INC. PROCESS F.M.E.A

MODEL/VEHICLE: PREPARED BY: INJECTED MOLDING COMPONENTS LEROY ROTH PROCESS RES 8.11.11 9.21.10 11.14.13

MO-CON	RESPONSIBILITY Man Bornar, John Saylors, Nacki Fujita	aylors, Naoki Fullta
	Undete SC's to match control plan	L Roth, J. Fraim, D. Gillenwater
	Add material dryer elem, add Central Feed interlock, review section 0050	L Rath, C, Threlkel, P. Ketth
	Delete runnering in 0080	L Roth
	review process, updata detection ratings	J Fraim, L Rath, D Gillenwater
	Update for Setup	L Roth
	Update for Setup	L Roth
	Update to include mold gettes and mold belance as cause of failure, and lance/dip breakaps as failure mode. Added rebot breakaps as failure mode.	D Gillenwater, J. Fraim, L. Roth, D. Duncan, A Davidson, S. Tsufsuí, J. Saylors

	DE POT	Raw	perfus Cus Par	Part Raw Inter Schen Pert			Part Raw Perfusion Country Cou
	POTENTIAL EFFECT(S) OF FAILURE	Arew Medical shortage causing interruption to inj. Medifing scheduled production, leading to: "Parts shortage "Custoner part delivery performance degraded.	Raw Material shortage causing interruption to Inj. Molding scheduled production, leading to: *Parts shortage	performance degraded.	performance degraded. performance degraded. Meterial rejected, Insufficient material for production. Component produced from contaminated material. Cuttle problem Cuttle problem Cuttle problem	performance degraded. performance degraded. Ineufficient Material rejected. Ineufficient makerial for production. Component produced from contaminated material. Couldby problem Customer complaint Customer complaint Customer part delivery parformance degraded. Customer compliant	performance degraded. Material rejected, insufficient malerial for production. Component production. Component production from contaminated material. *Causility product. *Causility Partis *Customer complaint *Daley Scheduled Production *Brittle Partis *Customer complaint *Daley Scheduled Production *Customer part delivery performance degraded. *Customer part delivery performance complaint *Customer part delivery *Customer complaint *Customer complaint *Customer complaint
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D	* * > □ C		S 글	F 9.5		Ω Ξ	Hat.
DATE	POTENTIAL CAUSE(S)/ MECHANISM(S) OF FAILURE	Incorrect quantity shipped by Supplier	incorrect material part number shipped by Supplier		Improper Handling at point of origin and / or transportation. Improper Packaging		Handling at point of Handling at point of Pandling at Potentian of Packaging of Supplier Process
games	25000		028500047	-	N C D D D		****
semings for damage, added damage to	CHANGE POINTS CURRENT PROCESS CONTROLS	P-Supplier confirms material quantity or weight, and creative packing fait. D- Reaching Sascolar confirms BOL agained Packing Lat (confirms each unit). Material is barcade seamed into system against open Purchase Order	P-Supplier confirms material quantity or weight, and creates packing list. D - Receiving Associate confirms BOL against Packing List (confirms each unit). Material is barcodo scanned into system against open Purchase Order	P-Packeging is designed to prevent damage.	confirms container for damage.	Deputing associate your problems confirms contained as each lot of material for proper mechanical and chemical properties. D-SDA Receiving associate verifies Metial Cert to standerd, and test Metial Flow each PBT lot. *Modeling machine monitors delect process verificion "CA Lab verifies product function each run.	onlims container for damage, confirms container for damage, confirms container for damage, confirms contained and chemical properties. - SQA Receiving associate verifies Maisfald Cart to standard; and test Mais Flow each PST let. (IC) - Wholing machine monitors delect process variation (AL) - Supplier confirms and matches color per their in process controls. - Receiving associate visually confirms and process controls. - OA Receiving associate visually confirms per shipment / lot referencing master samples.
	0 11 11 10		9	O)		Ø1	***
	Z · 7 · 2 0	ta ·	* z	8		76 0 20 27 5 4 5 28 20 72	
	R RECOMMENDED ACTION(S)	NONE	NONE	NONE		Reav Material is confirmed to most spac by material aupplier and Molt Flow tasting. OA Receiving. OA Receiving warding Machine monitors will detect material warding of each part to confirm it meets the specification. An other confirmit meets the specification. On other consection action needed.	Raw Material is confirmed to more type of the flow is supplier and Melt Flow itselfup. OAR Researing inspection. Modifying Materithms will defect material varietions will defect material to address the function of each part to confirm it makes the specification. We other correction action needed.
1	RESPONSIBILITY STARGET COMPLETION DATE						
	ACTIONS TAKEN						
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	- m 0		-				<u> </u>

Raw Material Out of Specification

2 Damaged Containers

0010

2. Incorrect Raw Material Part Number Received

Incorrect Raw Material
 Quantity Received

POTENTIAL FAILURE MODE

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ARREIT PROCESS CONTROLS P. Stopp order specifies resided P. Stopp order specifies resided C. N. Stopp
RECOMMENDED ACTION(S)
RECOMMENDED ACTION(S)
COMPLETION DATE ACTIONS TAKEN S C E C T
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						яземп
						PROCESS FUNCTION
	(A. Parts out-of-specification (CA. appelsamore checks) Broken pries, Flesh, Voids, Sints, Short Shot, Holes, Weld Lines and other visual defects				(Set-Up appearance checks); Eroken plate, Damaged mold plas, Flash, Volds, Sinks, Short Shot, Holes, Wedd Lines, Robet Damage and other visual defects. Confirmation of parts for confamination/greess/oil	POTENTIAL FAILURE MODE
	in), Moleting scheduled production interrupted. Interrupted interrupted function of Part Customer Compilar/Dissatisfaction				inj, Möding scheduled production interrupted. Impaired function of Part Customer Compliant/Dissatisfaction	POTENTIAL EFFECT(S) OF FAILURE
	3 IC/ SWS	5	W	ω	Ç.	< m 0
	Machine Parameters (Over a adjustment & under adjustment, Bridder lange) Age of Mold Incared Mold Design Caffects material flow) or Combinetion of above. Flow variation due to change of injection fundion components (barrel, screw, nozzłe typo, ste).	Demeged of broken plins due 2 to Age/condition of Mold	Machine Weer Improper deaning at changeover or machine PM.	Improper Robot settings	Machine Perameters (Over adjustment & under adjustment, limited range) adjustment, limited range) Malerial leatability Age of Mach limoured Mod Design Gate sitzs, location, wear (effods matched flow) or Combination of abures, effour variation due to change of injection furnition components (barrel, screw, nozzie type, str)	POTENTIAL CAUSE(8)/ MECHANISM(8) OF FAILLIRE
	P- 1. Monthly PM by meabhine maintenance. 2. Confirmation system for modifing set-up perameters. 3. Set-up Operator institutions (shop order) & visual confirmation of correct gate also, location, west or CPC. 4. Confirmation of correct gate also, location, west a resound on Condition Sheet & resound on Condition Sheet Form. 2. CAN Yeard Inspection per CPC and CA IIS at \$60 per GA003 & Inspection Standard or inspection function of angel per inspection function of angels per inspection of angels per inspection function of angels per inspection p	P- Meintenance PM Mold, QA Confirmation function SOP/EOP, Oppristor each lot visual check, Mold condition settings.	Un Set-up operator verifies & visually confirms machine clean each Mold change/Set-up per work instructions. Maintenance PM Mold Schedule	3 P-1. Setup confirms robot seiting per condition sheet. 2. Utilize self drop conveyors. 3. Confirmation of Sel-up of auxiliary squipment. 4. PM for robot clamp. 5. Utilization of pick and place nobots where applicable. 1-1. Sel-up operator visual confirms first 10 shots. 2. Modding operator checks first shed seech SOP per GANG3 & at sech SOP per GANG3 & Inspection Sonndamor	JP - 1,4Mortility PM by machine maintenance. 2.Confirmation system for modify sel-up parameters. 3.Sel-up Operator instructions (shop order) & visual confirmation per PCC. 4.Confirmation per PCC. 4.Confirmation of correct gate size, location, water CDC. Condition Sheaf Form. 2.Engineering validation of injection function changes per internal lobust test procedure.	C CLIRRENT PROCESS CONTROLS
	Cir.	55	ය යු	Gt 181	5	0 m ⊣ n
	SEWS strictly controls processing parameters and lod undersone levels and hoof condition. OA also verifies part dimension and function at the start and and of production. No other action needed.	SEWS mainteins molts and follows articl PM schedula. Perits are also confirmed functionally to delect for out of spec parts due to broken molds.	NONE	NONE	SEWS stirdly controls proceeding promaters and following permaters and following between the proceeding promaters and tool condition.	RECOMMENDED ACTION(8)
						RESPONSIBILITY & TARGET COMPLETION DATE
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Contraction of the contraction o	Quality Assurance Inspection Injection injection Moldring					PROCESS FUNCTION
Continued Production 3 (not distance) to make the continued production 3 (not distance) to make	5, Parts out-of-specification (QA appearance ninedes) Broken plans Flesh, Volds, Sinks, Short Shot, Heles, Welst of Lines and other visual defects	1. Parts out-of-specification (in- Line Roving Patro) Line Roving Patro) Line Roving Datro) Line Roving Datro Line Roving State Line Roving Line Line Roving L	4. Parts out-of-specification (Operator appearance checks): Broken pins, Damaged mold pins, Helsh, Volds, Sinks, Short Shot, Holes, Weld Unes, Robot Damage and other visual defects.		nal -	POTENTIAL FAILURE MODE
Columnitation Columnitatio	Molding scheduled production interrupted. Manuphed. Manuphe		nduction	duction	oduction	POTENTIAL EFFECT(S) OF FAILURE
Extractionaries of Principles C CONTEST PROCESS C			ы			< m >
Confidenti Recordes Controllos () F. 1. Condition deplatment F. 2. Confidential for segulating to Excellential for segulati	Machine Parameters (Over adjustment, & under subjustment, & under subjustment, Britled hange) Matorial Instability Age of Mold Design Gates size, location, wear (affects material flow) or Combinedion of store, Flow variation due to change of ligisction fundion components (barrel, acrew, nozzle type, etb)	<u> </u>	4	Machine Parameters (Over edijustment & under edijustment (Britled range) Material Instability Age of Mold Incorrect Mold Design		MECHANISM(S) OF FAILURE
SEWS affectly controls 48 SEWS affectly controls 49 SEWS affectly controls 40 SEWS affectly controls 40 SEWS affectly controls 40 SEWS affectly controls 41 SEWS affectly controls 42 SEWS affectly controls 43 SEWS affectly controls 44 SEWS affectly controls 45 SEWS affectly controls 46 SEWS affectly controls 47 SEWS affectly controls 48 SEWS affectly controls 49 controls 49 controls 40 or controls 40 or controls 40 or controls 41 SEWS affectly controls 42 SEWS affectly controls 43 SEWS affectly controls 44 SEWS affectly controls 45 SEWS affectly controls 46 SEWS affectly controls 47 or controls 48 SEWS affectly controls 49 controls 49 controls 49 controls 40 controls 40 controls 40 controls 40 controls 41 SEWS affectly controls 42 series 43 SEWS affectly controls 44 SEWS affectly controls 45 SEWS affectly controls 46 series 47 controls 48 controls 49 controls 49 controls 49 controls 40 controls 40 controls 40 controls 40 controls 40 controls 41 SEWS affectly controls 42 controls 43 controls 44 SEWS affectly controls 45 series 46 controls 47 controls 48 controls 49 controls 49 controls 49 controls 40 controls 40 controls 40 controls 41 controls 42 controls 43 controls 44 controls 45 controls 46 controls 47 controls 48 controls 49 controls 49 controls 49 controls 40 controls 40 controls 40 controls 40 controls 41 controls 42 controls 43 controls 44 controls 45 controls 46 controls 47 controls 48 controls 49 controls 49 controls 49 controls 40 controls 40 controls 40 controls 41 controls 42 controls 43 controls 44 controls	P. 1 Monthly PM by machine maintenance. 2. Confirmation system for moding set-up parameters. 3. Set-up Operator Instructions (shop order) & visual sets of parameters, as even order) & visual sets of parameters of the parameter	P- 1.Monthly PM by machine maintenance. 2.Confirmation system for molding set-up perameters. 3.Set-up Departer instructions (short order) a visual machine actual perameters. 4.Confirmation per GPC. 4.Confirmation per GPC. 4.Confirmation order(state size, location, wear D- 1.Verify parts agains) CPC.	P- 1 Monthly PM by machine mainleasure. 2.Confirmation system for modeling set-up parameters. 3.8 set-up operator instructions (shop order) & visual confirmation per CPA (Confirmation per CPA) sizual confirmation per CPA. 2.7 (Variety partia against CPC.	P- Confirmation system for modifing set-up parameters. Set-up Operator instructions (shorp orter) & visual confirmation per CPC, Varify against Mold Book Condition Sheef & record on Condition Sheef Sem. 2. QA Dimensional measurement evolt 50P per GA003 & Inspection Stantian		GURRENT PROCESS CONTROLS
Se sond of and o						0 m ⊣ .
ACTIONS TAKEN V E G O	SEWS strictly controls processing peremeters and tolerance levels and tool condition. Oaks the verifies part dimension and function at the start and end of production. No other action needed.	SEWS stirctly controls processing parameters and tool tolerance levels and tool condition. Oak size verifies part dimension and function at the stort and and of production. No other action needed.	SEWS strictly controls processing parameters and loberance levels and tool condition. QA size verifies part dimensions and function at the start and end of production. No other action resided.	SEMS strictly controls processing parameters and between levels. QA also varifies part dimension and function at the start and end of production. No other action needed.	SEWS strictly controls represents and processing parameters and tolerance levels. OA also verifies part dimension and function at the safe and end of production. No other action needed.	RECOMMENDED ACTION(S)
TANEN V E G G						RESPONSIBILITY STARGET COMPLETION DATE
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Material Staging for 1. In Non-Bulk Packing / Labeling		0090 Automatic Bulk Packaging / Labeling	(what	74 1 M			17
-			100% Inspection (where applicable)	Material Staging for 190% Inspection (where applicable)			PROCESS FUNCTION
1. Incorrect Storage Location	Incorrect Quantity	1. Incorrect Bug / Box Label 2. Mixed Parts	T. Parts out-of-specification (Sorter) (Sorter) (Sorter) (Sorter) (Sorter) (Sorter) (Shot Shot, Holes, Wield Lines, Robot Damage and other visual defects. Confirmation of parts for contamination/greess/oil	3	7. Parts out-of-specification (QA Dimension Checks)	(CA) function chapterisection (CA) function chapterisection (CA) function chapterisection (remined retention, retainer insertion, retainer retainer insertion, retainer retainer on, engagement with matting parts (clip, etc.), Hinge, Cityfock, or Lance damage-(where Applicable)	POTENTIAL FAILURE MODE
Delay in locating material, possible delay of shipment.	outstoner Complaint / Charboner Complaint / Disastitifaction Wirong quantity delivered to outstoner Complaint / Charboner Complaint /	tomer	inj. Molding scheduled production interrupticd. Impaled function of Part Customer CompliantDissatisfaction	Wrong Part/Mixed Parts delivered 3 to clustomer Compilent/Dissatisfaction	Ing. Modeling scheduled production interrupted. Impaired standson of Part Customer-Composited / Dissettis faction	Inj. Molding enheduled production interrupted. Impaired inreden of Part Customer Compilant/Dissettsfaction	POTENTIAL EFFECT(8) OF FAILURE
					SWS	3 IC/ SWS /IM	< m <
intervial Handler falled to place product in correct location.	reaching partials and overage polling partials and overage from bins and placing into beg / box. Incorrect set up or beg count.	ž.	Machine Parametasa (Over adjustment & under adjustment & under adjustment (minet arnge) Metalita (Machine)	Material Handler falled to place product in correct location.	Machine Parameters (Over adjustment & under adjustment is inder adjustment, inflod range) Material Intability Age of Mold Incorrect Mold Design	Machine Parameters (Över edjulament & under adjustment, Ernfeet mange) adjustment, Ernfeet mange) Material Intelligent (Editor size, location, wear Carbo size, location, wear (affects material floyd) or Combination of stowe. Flow variation due to change of injection function components (barnel, acrew, nozzie typa,ate)	POTENTIAL CAUSE(S) MECHANISM(S) OF FAILURE
bag bag spen	S P- Part		3 P- 2.0 mai 3.9. (she	2 P- sca sys	2 P-Co modeli up Op CPC, D-Ve Condi Condi Condi	2. Coo Coo Moo Moo S. E. Coo Moo Moo Moo Moo Moo Moo Moo Moo Moo	77 C C C
bags. Each bag scanned to box to confirm correct quantity of bags. P. Each part is assigned to a specific location though bercode scan system.	relulate and overlage are scanned to the box being gacked to confirm the correct part is packed. P- Parks are 100% counted by machine. D-Operator weights 100% of	P. Barcode packing and labeling system. Or - QA operator visually confirms once per shift per check sheet.	P- 1.Monthly PM by machine maintenance. Zoorffrantion system for recition system for moiding set-up parameters. 3.8et-up operator instructions (shop order) A visual (shop order) A visual (shop order) A visual parameters). 4.Confirmation of correct gate size, location, wear size, location, wear PD-1.Verify parts against CPC / TV41.	P- Material Handler verifies correct location per electronically, scanning Part number into system (BPCS)	P- Confirmation system for modifing set-up parameters. Set-up Operation Instructions (shop) up Operation Instructions (shop) orders) & visual confirmation per CPC. D- Verify against Model Book Condition Sheet & record on Condition Sheet Ferrin. Condition Sheet Ferrin. C. OA Dimensional Sheet Ferrin.	"7-1, Condition adjustment restricted to engineering. 2 Continuation system for molding satup parennates. D-1, Verify against Mold Book Condition Steet & record on Condition Steet Ferm. 2-0.A Function at testing each MOPECP per GAD03 & Impaction Steet of Impaction Steet in the Condition Steet in t	CURRENT PROCESS CONTROLS
30	5 3			4 1	60 40a	30	0 m -1 r
NONE	NON III		SEWS strictly controls processing premaraters and to processing premaraters and tool condition. Ox also verifies part dimension and function at the start and and of production. No other action needed.	NONE	SEWS strictly controls proceeding parameters and totermore levels. QA also verifies part dimension and function at the strate and end of production. No other action needed.	Disselve shiely controls processing perameters and tolerance levels. QA also voifities part dimension and function at the start and end of production. No other uction needed.	RECOMMENDED ACTION(S)
							RESPONSIBILITY ATARGET COMPLETION DATE:
							ACTIONS TAKEN
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		0150			0140	0130		0120	01 10 10		NUMBER
		0150 Shipping Finished Goods			0140 Finished Goods Dock Audit- (Weeldy) Rendom box per skid)	0130 Finished Goods (inventory (Shipping)		Finished Goods Storage	Transfer packaged parts to storage	Packeging and labeling at Machine	PROCESS FUNCTION
3. Incorrect AIAG Label (where Applicable)	2. Damaged Boxes	1. Wissing Box Label	3. Incorrect AIAG Label (where Applicable)	2. Incorrect Quantity in box and I or Damaged Box	1. Incorrect Part In box.	1. Finished Goods Shortege	2. Deterioration of packaging.	1. Incorrect Storage Location	1. Incorrect Starage Location	1. Incorrect Bag / Box Label	
Customer Complaint / Dissatisfaction	Customer Complaint / Dissatisfaction	Possible delayed shipment or shortege or parts.	Customer Complaint / Dissatisfaction	Customer Complaint / Dissettsfaction	Customer Compleint / Disselferiedion	inj, Molding scheduled production interrupted intermittent leading for the production of the productio	Damaged to box, potential delay of shipment.	Wrong Part delivered to customer Customer Complaint / Dissettiefaction	Delay in locating material, possible delay of shripment.	Wrong Part delivered to customer Coustomer Complaint / Dissettle faction	POTENTIAL EFFECT(s) OF FAILURE
ω	w	ω	ы	ω	ω	ü	£s3	ы	ω	ch	< m w
Operator failed to verify AIAG label present, blear, correct and legible	Shipping Operator falled to verify no damaged boxes shipped.	Operator feiled to verify shipping label is present, clear, correct and legible	Operator failed to verify AIAG lebel present, clear, correct and legible	Shipping Operator falled to verify no damaged boxes & correct quantity shipped.	Operator falled to verify shipping label present, cleer, correct and legible	BPCS SYSTEM not 100% dependable	Environmental canditions, handling errors.	Material Hendler failed to place product in correct location.	Meterial Handler felled to place product in correct location.	Packaging operator falled to place correct label on beg / box	C POTENTIAL CAUSE(S) A MECHANISM(9) OF FAILURE 8
3 P - Operator electronically scams Box Lated number to Print AIAG part number.	D - Operator visuelly checks for damage & scans label / verifies correct quantity acceptance.	2 D - Operator visually checks for damage & scarts label / verifies correct quantity acceptance.	D - Operator electronicelly scens Box Label number to Print AIAG part number, includes cross verification system	D - Operator visually checks for damage & scans label / verifies correct quantity acceptance.	P- Packing Barcode Scanning operation, confirming inventory fabel to shipping label. Operator visually confirms per instructions	P- Inventory Control System, D - Manual Inventory taken, Openstor manual / visual Inventory.	P- Climate controlled werehouse, FIFO barcode controlled, monthly shelf life assessment. D- Weekly audit and inventory assessment.	D - Materiel Handler verifies correct location per electronically scanning Part number into system (BPCS)	D - Material Handler verifies uarrect location per electronically scanning Part number into system (BPCS)	3 P- Barcode packing and labeling system, QA operator visually confirms once per shift per check sheet. Pags are 100% weighed by machine.	O C CURRENT PROCESS CONTROLS O R
69 45	30	30	60	~ 점	8 30	න පු	Ut	Di Ca	ća ća	UI	0 11 11 10
NONE	NONE	NONE	NONE	NONE	NONE	NOME		30 NONE	30 NONE	75 NONE	R RECOMMENDED ACTION(8)
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Control Plan Number			Key Contact/Phone	₹			1	Date (Orig.)		Date (Rev.)	
Connector Manufacturing Group (CMG)	NG)		L. Roth/D. Gillenwater (270) 237-5419 x 8555 or 8563	rater (270) 237-5	419 x 8555	or 8563		8/9/2010		12/3/2014	
Part Number/Latest Change Level Various			Core Team L. Roth, P. Keith, J Fraim, A. Davidson	J Fraim, A. David	dson			Customer Engir	eering Approv	Customer Engineering Approval/Date (If Req'd.)	
Part Name/Description			Supplier/Plant Approval/Date	proval/Date	<u>»</u> S			Customer Quality Approval/Date (If Reg'd.)	v Approval/Da	te (If Reg'd.)	
Various, Connector Molding			L. Roth 12/3/14		4/24	10/5/14					
Supplier/Plant Sumitomo Electric Wiring Systems	Supplier Code		Other Approval/Date (If Req'd.) A. Bomar 12/3/14	ite (If Req'd.)	The Tome	Mohn		Other Approval/Date (If Req'd.)	Date (If Req'd.		
Revision History:			8.9.10: Reviewed process, minor changes in bold	process, minor i	changes in	bold					
			9.21.10: Added Set-up Checksheet at Setup	t-up Checkshee	t at Setup						
			3.30.11: Modified Section 0090	Section 0090							
			8.11.11: Modified Section 0060, other minor changes in bold	Section 0060, ot	her minor c	hanges in bold.					
			9.15.11: Added Annual Layouts, other updates in bold	mual Layouts, ot	ther update:	s in bold					
			3.6.12: Updated f	or Resin Concer	trate Mix P	3.6.12: Updated for Resin Concentrate Mix Process, Resin loading process					
			11.27.12: Update	d special charact	teristics des	11.27.12: Updated special characteristics designations, Added Packing Scale Setup	Setup				
			4.3.14: Remove r	eferences to ann	ealing proc	4.3.14: Remove references to annealing process, color concentrate and 10T machine.	nachine.				
			5/6/14: Review m	aterial loading se	ection 0050	5/6/14: Review material loading section 0050, updated references to bag/gaylord/silo	ord/silo				
			o/28/14: Clarify duzu, sample size / Frequency	JZU, Sample SIZE	e / Frequen	8					
			12/3/14: Add QA Hold Procedure to section 0080 & 0080	Hold Procedure 1	to section 0	080 & 0080					
The second secon		7	CHARACTERISTICS	TICS	W. Salata Arthur	and the second of the second o	METHODS	S			
PART / PROCESS NAME / PROCESS OPERATION NUMBER DESCRIPTION	20,41	8	PRODUCT:	PROCESS	SPECIAL CHAR.	PRODUCT / PROCESS SPECIFICATION / SALE	EVALUATION / MEASUREMENT	SAMI	SAMPLE TIMES	CONTROL	REACTION PLAN
O Raw Material	.22	ö	Plastic Resin	Material			Visual Inspection &	-	Each Receipt	13	Notify S&R Coordinator.
Receiving	NA NA			Receiving		Correct color & type No Damage No Material Correct Part Number & all appropriate documentation	visual inspection & comparison to packing list	Per comainer	Each Kecelpt	* Electronic Data Scan	Q.A.
										,	
0020 Quality Assurance Receiving Inspection		8	Plastic Resin	Receiving		er a	* Visual comparison to box/skid labe! * Visual check of	Per QRW- RAINBOW SQA Sample	Each Incoming Shipment	neer,	* Notify SQA Coordinator, QA Leader or QA Manager.
					೧	* No contamination * Material Certification	packaging * Review of Material Cert.	Plan		Certifications	*Return to Supplier *Issue PIR to Supplier *Reject / Hold
	Melt Flow				ក	* Melt Flow (As applicable per IISRP)	"MFR Test	Each Lot	Each Lot		
	Tester										

	The second House of the second	MACHINE		CHARACTERISTICS	TICS	MARKET COM		METHODS	Ğ		
PROCESS NUMBER	PROCESS NAME/ OPERATION DESCRIPTION	DEVICE JIG TOOLS FOR MFG	58	PRODUCT	PROCESS	SPECIAL CHAR	PRODUCT / PROCESS SPECIFICATION / TOLERANCE 2	EVALUATION / MEASUREMENT TECHNIQUE	SZE SAM	SAMPLE SAMES	CONTROL &
0030	0030 Material Storage (Resin & Raw Materials)	N/A	30	lt.	Material Storage		* Correct Location	ronic Label Scan	Each	Each Receipt	Electronic Label Scan
	Silo	N/A		Correct Location	Material Storage		* Correct Silo	Visual confirmation of Silo Label / BOL/PL	Each Reciept	Each Receipt * Visual	* Visual
Ng 8 ₀ , 440	Inventory Assessment Audit (Non-Silo material)			Material Condition, Location	Inventory Assessment Audit		No Damage, No missing labels, Proper storage condition, FIFO	Visual Inspection	Sample of raw material in warehouse	Weekly	Weekly Stock Assessment Sheet, SQA Inventory Audit
0050 P	0050 Material Delivery to Manufactuing (Assign Gaylord / Bags)	Fork Truck	8	Correct Waterial	Assign Gaylord / bag to Hopper / Surge Bin		Correct Location / Loader (as applicable)	Compare raw material RPN # to RPN # on Loader (scan)	Each Container	Each material transfer	* Electronic scan, * Material Handling Log
(0 = = =	Material Delivery to Manufacturing: (Assign Silo lot to Surge Bin)	Sio		Correct Materials	Assign Silo to Hopper/ Surge Bin		Assign Material to Correct Location / Loader (as applicable)	Compare raw material RPN # to RPN # on surge bin (scan)	Each Receipt	Each Receipt	Each Receipt *Electronic scan
0.3	Material Pre-drying (as applicable)	Off-line Loader / Pre-dryer		Dried Material	Pre-Drying (When applicable)		Drying Temperature set correctly.	Visual	Each unit	Monthly	PM Record
		Central Dryer					Drying Temperature set correctly.	Visual	Each unit	Each Shift	* Checksheet * Alarm if power off
a e r	Loading Material (To transport barrel/buggy)	Material Barrel / Buggy		Correct Material	Raw Material Loading to Barrel / Buggy		(Barrel/Buggy): Per Shop Order Match Raw Material RPN number to appropriate barrel / buggy. (Central Feed): Per Shop Order, match raw material RPN number to durniny Barrel (Label.	* Verify per shop order. * Per applicable Work Instruction	Each	Material Change / Each material transfer	* Electronic scan, * Material Handling Log

						0060				NUMBER	PROCESS	DA DE A
Engineering Validation	Set-up Validation	Automatic Machine Reject	Add Regrind Material to Virgin Material	Correct Mold	Safety Checks	Set-Up Injection Molding Machine		Machine Side Drying (where applicable)	Molding Machine	DESCRIPTION	OPERATION	DESCRIPTION OF THE PARTY OF THE
		Machine	Regrind Material (when applicable)	Mold		Molding Machine		Machine Resin Dryers			DEVICE JIG	MACHINE
						60				∛ ŏ		1
_								Dry Material	Correct Material	PRODUCT	Commence of the second	CHARACTERISTICS
Validation of injection function process	Set-up Inspection	Automatic Machine Reject	Add Regrind Material to Virgin Material	Correct Mold	Safety	Set Machine Parameters	_	Drying (When applicable)	Transfer Raw Material to Motding Wachine	PROCESS	SECONDA SECULAR	STICS
										CLASS	SPECIAL	A CANADA STA
Engineering validation of any change to machine injection function (barrel/screw/ nozzle type / etc)	No Weld Line, Short Shot, Broken Mold Pin Damage, Excessive flash	First 8 Shots for Molding Machines	Set Mix Ratio per Mold # Condition Sheet.	Per Shop Order	Complete Safety Checks	Process Parameters		Set temperature per condition sheet.	Correct Material Part Number/Type per scan	SPECIFICATION!		
Per QAW - ROBUSTTEST	Per Critical Check Sheet / Applicable Work Instruction	Per Restart Verification Procedure Work Instruction & Machine Automatic Count Setting	Per Mold # Condition	Visual per Shop Order	Per Mold # Condition	Per Mold # Condition	Dewpoint meter	Visual	Scan Shop Order against material tag per applicable work instruction.	garage.		METHODS
20 shots	10 Shots	Each Mold Start-up	Each Mold Start-up	Each Mold Set up	Each Mold Set	Each Mold Se	Each unit	Once	Each container	SIZE	Programma SAI	DS .
Each change	Each Mold Start-up	Each Mold Start-up	Each Mold Start-up	Each Wold Set	Each Mold Set	Each Wold Set up	Monthly	Each Mold Ser up / Each Shift	Each Mold Se up / Material transfer	FREQ.	MPLE	
QAF-RobustTest	Process Sheet	Controller Check Sheet	Operator Daily Checksheet	Setup Operator Checksheet	Setup Operator Checksheet	Controller Check Sheet, Set-Up Operator Check Sheet	Monthly PM	Controller Condition Check sheet	t* Electronic Scan, * P- Chart			
Notify QA Leader, Coordinator / Above	Notify Leader / Coordinator	Notify Leader / Coordinator	Notify Leader / Coordinator	Notify Leader / Coordinator	Notify Leader / Coordinator	Notify Leader / Coordinator	-	n Adjust Dryer, dry material and requalify.	Notify Leader / Coordinator	E state C	525	
	Validation of Engineering validation of any Per QAW - ROBUSTTEST 20 shots Each change CAF-RobustTest injection function (barnel/screw/ nozzle process type / etc) Validation of Engineering validation of any Per QAW - ROBUSTTEST 20 shots Each change CAF-RobustTest validation of change to machine injection function (barnel/screw/ nozzle type / etc)	Idation Set-up Inspection Set-up Broken Mold Line, Short Short, Inspection Broken Mold Pin Damage, Excessive flash Validation of injection function function function function fype / etc.) No Weld Line, Short Short, Per Critical Check Sheet Applicable Work Instruction Start-up Start-up Per QAW - ROBUSTTEST 20 shots Each Mold Process Sheet Start-up QAF-RobustTest (hard)screw nozzle process (type / etc.)	Machine Machine Automatic Hrist 8 Shots for Molding Per Restart Verification Machines Procedure Work Instruction Reject	Ind Material Regrind Raterial (when Instruction Raterial (when Instruction Raterial (when Instruction Inspection Instruction Inspection Inspec	old Mold Correct Mold Set Setup Operator Daily Material Regind Material (when Add Regind Material to Virgin Material Daily Virgin Machine Machines Machine Mac	Safety Checks Ch	ection Modring 60 Set Marchine Process Parameters Per Mold # Condition Up Up Operator Check Sheet Service Checks Complete Safety Checks Sheet Service Up Up Checks Sheet Safety Safe	Modding 60 Set Machine Process Parameters Per Mold & Condition Salety Complete Safety Checks Machine Modd Comed Mold Complete Safety Checks Complete Safety Checks Modd Regitind Material (when Applicable) Machine Ma	Modring Dywins Pleasin Dry Marketal Drying (When applicable) Drying (When applicable) Set temperature per condition where sheet. Modring Parameters Departments Departments Departments Departments Regime (Checks aftert) Process Parameters Per Mod & Condition Departments Departments Regime (Checks Departments) Departments Regime (Checks Departments) Departments Per Mod & Condition Departments Departments Per Mod & Condition Departments Departments Per Mod & Condition Departments Dep	Correct Material Transfer Raw Marchine Dry Material Dry	DESCRIPTION: Visible Wilder PRODUCT PRODUCTS PRODUCTS PROTESS CLASS SERVICE SE	DESCRIPTION TO REPORT ID. TO PRODUCT TO PRODUCT AND PRODUCT TO PROCESS DE PLALATION SOND TO PRODUCT TO PROCESS DE PRODUCT TO PRODUCT TO PROCESS DE PRODUCT TO PRODUCT TO PROCESS DE PRODUCT TO PROCESS DE PRODUCT TO PROCESS DE PROCES

_												
				0080			0070			NUMBER	PART/	
_	100% Internal Inspection (When Applicable)	Material Staging for 100% Inspection (Where Applicable)		0080 Quality Assurance Inspection Fit & Function, Visual, Dimensional	Inline Inspection	Operator Inspection	0070 Mass Production Inj. Molding		Quality Assurance Inspection Fit & Function, Visual, Dimensional	DESCRIPTION	PROCESS NAME / OPERATION	. 0
	Under Light	Cart	Force Gage, Mating Parts, Various jigs as- required	Magniffer Light, Profile Projector, Caliper, Micrometer,			Mold, Machine	Force Gage, Mating Parts, Various jigs as required	Magnifier Light, Profile Projector, Caliper, Micrometer	MFG.	DEVICE, JIG,	- LANGE TO SERVICE TO
			·	8			70		8	* 6	1	
	Molded Parts	Molded Parts	Dimensional	Connector Visual, Fit & Function	Molded Parts	Molded Parts	Molded Parts	Dimensional	Connector Visual, Fit & Function	PRODUCT		CHARACTERISTICS
	100% Inspection	Material Staging for 100% Inspection		Quality Assurance Inspection	100% Raving Inspection	Operator Inspection	Mass Production Inj. Molding		Quality Assurance Inspection	PROCESS Segre Vera	2	
			C, C# (IC, SWS)	C (IC, SWS, IM)				c, c# (IC, SWS)	C (IC, SWS, IM)	CLASS	SPECIAL CHAR	At Supplement
Page 4 of 6	No Short Shot No Excessive Flash No defects	Correct Location	Per Q.A. Inspection Instruction Per Q.A. Inspection Sheet	Per Q.A. Inspection Instruction Per Q.A. Inspection Sheet	No Short Shot, Weld Line, Flash, Damage, Broken pin or other defects	Per Critical Position Checksheet	Per Mold Condition Sheet	Per Q.A. Inspection Instruction Sheet	Per Q.A. Inspection Instruction Sheet	SPECIFICATION / TOLERANGE	PRODUCT / PROCESS	
_	Vaual, Per Critical Position Checksheet / Applicable work instruction	Visual	Per Q.A. Inspection Instruction Sheet	Per Q.A. Inspection Instruction Sheet	Visual per Critical Position Checksheet and / or applicable Work Instruction	Visual	Visual	Per Q.A. Inspection Instruction Sheet	Per Q.A. Inspection Instruction Sheet	MEASUREMENT TECHNIQUE	EVALUATION/	METHODS
	Each piece per Lat	Each Container	One Shot	One Shot	1 shot per machine	1 shot per lot	Each Lot	One Shot	One Shot	E SIZE	MVS RESIDENCE	S
	As needed / required	As needed / required	Per QAW - GA003	Per QAW - GA003	Roving Floor Patrol	Each lot	Each lot	SOP checksPer QAW - GA003	SOP checks Per QAW - GA003	PREQ.	SAMPLE *****	
	CPC / Daily Inspection Log	Electronic Scanning System		Q.A. Inspection Instruction Sheet. Data Sheets, Electronic Data Entry	Process Sheet	Process Sheet	Process Sheet		Q.A. Inspection Instruction Sheet, Data Sheets, Electronic Data Entry	METHOD		Control Residence of the second
_	Notify Q.A. Leader, Coordinator / Above Manufacturing Coordinator Reject Tag Procedure QA Hold Procedure	Noify Q.A. Leader, Coordinator / Above Manufacturing Coordinator Reject Tag Procedure	QA Hold Procedure	Notify QA Leader, Coordinator / Above Manufacturing / Coordinator Reject Tag Procedure	Notify Coordinator / Leader, QA Leader, Follow Reject Tag Procedure	Notify Leader / Coordinator / Q.A. Leader / Above	Notify Leader / Coordinator	Reject Tag Procedure QA Hold Procedure	Notify Leader, Coordinator / Above Manufacturing Coordinator		REACTION PLAN	10年である。日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日

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	0100				0090	PART / PROCESS NUMBER
Material Staging (Parts not going to Packing Process	Packaging & Labeling at Machine	Manual Packing / Labeling	Manual Packing / Labeling	Automatic Bulk Packaging / Labeling	Automatic Bulk Packaging / Labeling	PROCESS NAME / OPERATION DESCRIPTION
Cart	Traveller label, Boxes, Plastic Bags	Weigh Scale, Label Printer, Scanner	Weigh Scale	Weigh Scale, Label Printer, Scanner	Weigh Scale	MAGHINE. DEVICE JIG. TOOLS FOR
	100				8	18
Molded Parts	Wolded Parts	Molded Parts	Wolded Parts	Molded Parts	Molded Parts	CHARACTERISTICS PRODUCT PRODUC
Waterial Staging for Non-Bulk Packing / Labeling	Packaging & Labeling at Machine	Manual Bulk Packaging	Setup Packing Scale	Automatic Bulk Packaging	Setup Packing Scale	OCESS
						SPECIAL CHAR CLASS
Correct staging location	Per shop Order	Correct Number of Parts, No mixed parts	Setup Scale	Correct Number of Parts, No mixed parts	Setup Scale	PRODUCT/PROCESS SPECIFICATION/ TOLERANCE
Visual per Location	Visual	Verify correct weight/quantity	Set up scale per W/I M1W- SCALE SETUP MAN PACK	Automatic Machine Count, verify correct weight/quantity	Set up scale per M1W- SCALESETUP	METHOL EVALUATION / MEASUREMENT
Each Container	Each	Each	Per Wil	Each	Per W/I	S SIZE SAN
As Needed	As Needed	Each bag	Each SOP, Each new Shop Order	Each bag	Each SOP, Each new Shop Order	SAMPLE PLANTS
Electronic Scanning System	Process Sheet, Electronic Scanning System	Electronic Scanning System, Packing Log	Record confimation on Changeover Checksheet	Electronic Scanning System, Packing Log	Record confimation on Changeover Checksheet	соупкац.
Notify Q.A. Leader, Coordinator / Above Manufacturing Coordinator Reject Tag Procedure	Notify Q.A. Leader, Coordinator / Above Manufacturing Coordinator Reject Tag Procedure	Notify Q.A. Leader, Coordinator / Above Manufacturing Coordinator Reject Tag Procedure	Notify Manufacturing Coordinator	Notify Q.A. Leader, Coordinator / Above Manufacturing Coordinator Reject Tag Procedure	Notify Manufacturing Coordinator	REACTION PLAN
	Carit Molded Parts Material Correct staging location Visual per Location Each Staging for Non-Bulk Packing / Labeling Correct staging location Visual per Location Comfainer System Coordinator / Abo Manufacturing Coordinator Tag Procedure	Each Boxes, Plastic B	Molded Parts Manual Bulk Correct Number of Parts, Verify correct Each bag Electronic Scanning Mostly Q.A. Leade	Molded Parts Molded Parts Setup Setup Scale Setup	Molded Parts Bulk Packaging Setup Scale Scape Molded Parts Scale Scape Packing Goordinator About Manufacturing Coordinator About Manufacturing Scape Packing Log Coordinator About Manufacturing Coordinator About Manufacturing Coordinator About Manufacturing Coordinator About Machine Packing Log Coordinator About Machine Process Sheet Machine Packing Log Coordinator About Machine Process Sheet Machine Staging for Unchalled Packing Log Coordinator About Machine Process Sheet Machine Packing Log Coordinator About Manufacturing Coordinator About Manufacturing Coordinator About Manufacturing Coordinator About Manufacturing Coordinator About Packing Log Coordinator About Manufacturing Coord	Setup Scale Setup Scale Setup Scale Setup Scale Society Molded Parts Automatic Automatic Automatic Machine Count, Scale Packaging Molded Parts Mo

	0150	0140		0130	0120	PROCESS NUMBER	
Annual Layouts	0150 Shipping Finished Goods	0140 Shipping Product Audit (S/R)		0130 Finished Goods Inventory Assessment	0120 Finished Goods Storage:	OPERATION DESCRIPTION	
	Fork truck				Material Racks	DEVICE JIG, TOOLS FOR S. MIEG.	MACHINE
	150	140		130		38 ₩	
Per Customer Drawing	All Finished Goods	Finished Product Audit	Correct Packing	Correct inventory inventory Quantities	Moided Finished Product	PRODUCT	CHARACTERISTICS
	Shipping Finished Goods	Product Audit	Product Audit (QA)	Inventory	Finished Goods Storage	PROCESS	
						CHAR	
Per Customer Drawing	Correct Quantity / Labels, Skid Electronic Scanning correctly stacked, Correct P.O. System, Visual number, Correct Carrier	No box damage, Skid correctly stacked Labels attached, Correct Label content	Confirm Packing, Damage	Correct Quantities	Correct Location	PRODUCTI / PROCESS SPECIFICATION / TOLERANCE	And the second s
Per Customer Requirements	System, Visual	Visual Evatuation	Visual Evaluation	Inventory Assessment	Electronic Scanning System	EVALUATION / MEASUREMENT TECHNIQUE	ORIEW
Per Customer Request	Each	Sample of FG Inventory	Sample of FG Inventory	As needed	Each container	SAMPLE SAMPLE	Š
Per Customer Request	As needed	Weekhy	Weekly	As needed	As needed	PLE THEO	
Customer PPAP	Electronic Scanning Notity Leader, System Coordinator / Shipping Sup Reject Tag Pr	Warehouse Stock Assessment Checklist	SQA Inventory Audit Notify Leader, SV6 Coordinator / / Reject Tag Pri QA Holid Proc	Electronic Scanning System, Inventory	Electronic Scanning Notify Q.A. Leader. System Coordinator / Above Shipping Superviso Reject Tag Proced	CONTROL	
Notity QA Engineer/QA Manager	Notify Leader, Coordinator / Above Shipping Supervisor Reject Tag Procedure	Notify Leader, Coordinator / Above Shipping Supervisor Reject Tag Procedure	Notify Leader, Coordinator / Above Reject Tag Procedure QA Hold Procedure	Electronic Scanning Notify PC Management System, Inventory	Notify Q.A. Leader, Coordinator / Above Shipping Supervisor Reject Tag Procedure	REACTIO	

Sumitomo Electric Wiring Systems, Inc

Gage Linearity Study

				-ug-		rty Ottau	עי				
4/27/20	15					-	_			1	
S	Study Date	4/27/2015			Com	pany Part No	.: Weight				
	Gage ID	329079				Part N	o.				
0	Gage Desc	Force Gage				Part Des	c Weight (grams)			
	NIST No.:					Characterist	lc Weight				
s	tudy Type	Linearity & Blas	s	ı	/se Range M	ethod for Bia	s No				
	Appreiser	L. Roth			✓ Approv	red		MŜA Versi	on	4	ŝ
			Part R	eference Va	lues		Sį	ecification Llm	its		
		1	2	3	4	5	_		in		
		10	20	50	100	500.002			ax :		i
	1		20	50	100	500		m	- A		
	2		20	50	100	500					
	3	10	20	50	100	500.01		Pp (or Ppk) Targ	pet		
T R	4	10	20	50	100	500		6-Sigma Proc V	ar —		1
î	5		20	50	100	500					!
Ą	6	10	20	50	100.001	500					
L S	7		20	50	100	500					
	8		20	50	100	500					
	9		20:	50	100	500.01					
	10		20	50.001	100	500					
	11		20	50	100	500					
	12	10	20	50	100	500					
Avg.	. Blas/Part	0.000000	0.000000	0.000083	0.000083	-0.000333					
Pred	licted Bias	0.000064	0.000056	0.000033	-0.000006	-0.000314					
				Coefficie	ent D	F	t Stat	t Critical			
Good	ness of Fit	0.007161	intercept	0.00	0072 58.	000000	26164	2.00172	ОК		
Stan	dard Error	0.001706	Slope	-0.000	0001 58.	000000	64679	2.00172	ок		
S	SE % of TV			Upper Fit	ted Confider	ce Limit at w	orst point	0.000498	ОК		
s	E % of Tol	7		Lower Fit	ted Confider	nce Limit at w	rorst point	-0.000509	ОК		

Gage Linearity Study

Blas

	1	2	3	4	5
1	0.000000	0.000000	0.000000	0.000000	-0.002000
2	0.000000	0.000000	0.000000	0.000000	-0.002000
3	0.000000	0.000000	0.000000	0.000000	0.008000
4	0.000000	0.000000	0.000000	0.000000	-0.002000
5	0.000000	0.000000	0.000000	0.000000	-0.002000
6	0.000000	0.000000	0.000000	0.001000	-0.002000
7	0.000000	0.000000	0.000000	0.000000	-0.002000
8	0.000000	0.000000	0.000000	0.000000	-0.002000
9	0.000000	0.000000	0.000000	0.000000	0.008000
10	0.000000	0.000000	0.001000	0.000000	-0.002000
11	0.000000	0.000000	0.000000	0.000000	-0.002000
12	0.000000	0.000000	0.000000	0.000000	-0.002000

Coefficient

Lower Upper

Avg. Bias	-0.000033	-0.000472	DF 59.000000	EV % of TV
Standard Error	0.000219	Acceptable	Std. Dev 0.001697	EV % of Tol

UNCERTAINTY SETUP

Uncertainty Contributor	Туре	Plus or Minus	Probability Distribution	Based On	DF	Include
Linearity	*****		* A			
Linearity .Bias Corrected	A	0.008314	Rectangular	Maximum Residual	20.9	Yes
Only Blas corrected	A	0.008333	Rectangular	Maximum Residuel	20.9	No
Uncorrected	A	0.008	Rectangular	Maximum Residual	20.9	No
Bias, corrected or not	A	0.000219	Normal(1)	Std. Err of Avg. Bla	59	Yes
Resolution	A	0	Rectangular	From Gage Table	Infinite	Yes
Repeatability or GRR	A	0.00175	Normal(1)	Pooled Std. Dev.	55	Yes
UNCERTAINTY BUDGET						
Uncertainty Contributor	Туре	Plus or Minus	Probability Divis		ertainty tribution	DF

t for 95% Confidence		Combined Uncertainty	o
Coverage Factor k	2	Expanded Uncertainty	0

W

Comments

Approved by

Levy Rott

Date

4/21/15

Gage Linearity Study

WORK INSTRUCTION

AREA:

QUALITY ASSURANCE LAB

TITLE

LABORATORY SCOPE - SCOTTSVILLE (SV5 & SV5 Building 2)

PURPOSE:

To summarize the testing capabilities available at Scottsville Plant (SV5 & Building 2), and to clarify the equipment, tests performed, standards, recording method and reaction plan.

APPLICATION:

Scottsville (SV5 & Building 2)

RULE ENFORCER:

QA Coordinator / Above

SV5 Tests Performed

QAW - WATERPROOFTEST	Record Inspection Data Sheet	Reject Tag Procedure Reject Tag Procedure
WATERPROOFTEST	Sheet	Reject Tag Procedure
F-A-SV5-010	Moisture Teet	
	Data Sheet	Reject Tag Procedure
QAW - INSERTRETPROC	Inspection Date Sheet	Reject Tag Procedure
Inspection Instruction Sheet	Inspection Data Sheet	Rejact Tag Procedure
Inspection Instruction Sheet	Inspection Data Sheet	Reject Tag Procedure
SWS Inspection Standard	Inspection Data Sheet	Reject Tag Procedure
	Inspection Instruction Sheet Inspection Instruction Sheet SWS Inspection	Inspection Instruction Sheet Sheet Inspection Instruction Inspection Data Sheet Sheet SWS Inspection Inspection Data

SV5 (Building 2) Tests Performed

TESTS PERFORMED	EQUIPMENT USED	TEST METHODS / STANDARD	RECORDING METHOD	REACTION METHOD
Hardness Test	Hardness Tester	H-A-001	Hardness Test Data Sheet	Reject Tag Procedure
Insertion / Retention Test	Force Gage	QAW - INSERTRETPROC	Inspection Data Sheet	Reject Tag Procedure
Contact Force Test	Contact Force Gage	MSW-Force Gage	Inspection Data Sheet	Reject Tag Procedure
Dimensional Measurement	Profile / Keyence System / OGP / Caliper / Micrometer / Depth Gage / Sllp Gages	SWS Inspection Standard	Inspection Data Sheet	Reject Tag Procedure

QAF - WORKINSTRUCTION - A ORIGINAL DATE: 6/8/00 LAST REVISION: 6/15/06

FILE NAME: QAW-LABSCOPE-D ORIGINAL DATE 2006: LAST REVISION: 9/24/12

Production Part Approval nensional Test Results

DaimlerChrysler Fired 6M PART NUI

ORGANIZATION: SUMITOMO ELECTRIC WIRING 315 TEMS

PART NUMBER: 6189-7456, 6189-7673

SUPPLIER/VENDOR COI:

PART NAME: FOW 120A02FA-B

NAME OF INSPECTION FACILITY:

DESIGN RECORD CHANGE LEVEL: FI

NAME OF INSPECTION FACILITY:

DESIGN RECORD CHANGE LEVEL: EU5T-14A464-TB

Sumitomo Electric Wiring Systems Plt. 5

ENGINEERING CHANGE DOCUMENTS:

SPECIFICATION / QTY. TESTED TEST NOT DIMENSION / SPECIFICATION DATE ORGANIZATION MEASUREMENT RESULTS (DATA) OK M9 M10 M11 M12 M13 M14 M15 M16 16.90 -0.30 0.30 3/22/16 16.88 16.87 16.87 16.87 16.88 16.86 16.87 16.86 0 2 15.40 -0.30 0.30 15.39 15.37 15.38 15.38 15.37 15.39 0 3 11.60 -0.30 0.30 11.59 11.59 11.59 11.56 11.58 11.57 11.59 11.58 0 4 30.95 -0.30 0.30 30.91 30.91 30.93 30.92 30.93 30.91 30.92 30.92 0 33.45 5 Assembled -0.30 0.30 33.32 33.38 33.41 33.49 33.33 33.41 33.48 33.31 0

Blanket statements of conformance are unacceptable for any test results.

MARCH 2006

CFG-1003

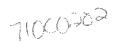
SIGNATURE Robin Casada

TITLE
PPAP Operator

DATE

10/01/15

3/22/2016





Innovation by Chemistry

Toray Resin Company, 821 W. Mausoleum Road, Shelbyville, Indiana 46176

Grade:	5108X01B BLACK
Lot:	R25018
Date:	02/23/16

Certification of Properties									
Test	Method	Unit	Specification	Result					
Visual	20	2	Same as Std.	Good					
Color	Ē.		Same as Std.	Good					
MFR	ISO 1133	g/10 min.	8~14	11.7					
Tensile strength	ISO 527	MPa	Min. 42	47.7					
Tensile elongation	ISO 527	%	Min. 14	36.7					
Flex strength	ISO 178	MPa	Min. 70	74.7					
Flex modulus	ISO 178	MPa	Min. 1,700	2,158					
Charpy - notched	ISO 179	kJ/m2	Min. 5	9.3					

For the ship date, please see the BOL. For the ship quantity, please see the BOL.

Toray Resin Company certifies the above results are in accordance with our ISO/TS 16949:2009 certificate.

This Certificate of Properties is generated by electronic means. No signature is required. This document may not be reproduced, except in full, without the written consent of Toray Resin Company.

Revision 5 01/01/14

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)
PART Name/Desc: FOW120A02FA-B
Prepared by / date Cindy Meador 9/9/15
Design Rec. Change level/date:

 PART NO (s):
 6189-7673
 EU5T-14A464-TB
 1
 4/22/2015

 Mold #:
 1452-A
 Eng. Change Documents:
 NA

CAVITY #:♥ 15.40 16.90 30.95 16.90 30.95 15.40 **M1 M2** +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 1 15.44 16.86 30.91 15.41 16.84 30.85 2 15.43 16.86 30.91 16.85 15.42 30.85 15.43 16.87 30.89 3 15.41 16.84 30.85 15.44 4 16.86 30.89 15.42 16.83 30.85 5 15.45 16.87 30.89 15.42 16.85 30.85 6 15.44 16.87 30.89 16.83 30.85 15.41 15.43 16.86 30.88 15.41 16.84 30.84 8 15.43 16.86 30.88 15.41 16.85 30.85 9 15.44 16.86 30.91 15.43 16.84 30.84 10 15.45 16.87 30.88 15.41 16.84 30.85 11 15.43 16.87 30.85 30.88 15.42 16.84 12 15.44 16.87 30.89 15.41 16.85 30.85 13 15.44 16.86 30.90 15.42 16.84 30.85 15.43 14 16.86 30.88 15.41 16.84 30.85 15 15.43 16.87 30.89 15.41 16.85 30.85 16 15.43 16.86 30.88 15.40 16.85 30.85 17 15.44 16.86 30.89 15.41 16.84 30.85 15.43 18 30.90 16.86 15.42 16.85 30.85 16.87 19 15.44 30.89 15.42 16.83 30.85 20 15.43 16.87 30.89 15.40 16.85 30.85 21 15.44 16.87 30.89 15.43 16.85 30.87 22 15.43 16.87 30.88 15.42 16.84 30.85 23 15.44 16.86 30.89 15.41 16.85 30.85 24 15.43 16.86 30.88 15.42 16.84 30.85 25 15.43 16.86 30.89 15.42 16.87 30.85

15.42

15.41

15.41

15.41

15.40

16.85

16.84

16.85

16.85

16.84

30.85

30.86

30.84

30.85

30.85

CPK MEAS DATA ORIGINAL DATE: 11/18/02 LAST REVISION: 6/5/06

15.43

15.43

15.45

15.43

15,43

16.86

16.86

16.87

16.87

16.87

30.90

30.90

30.88

30.89

30.90

26

27

28

29

30

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

PART Name/Desc:

FOW120A02FA-B

Prepared by / date
Design Rec. Change level/date:

Cindy Meador 9/9/15

NA

PART NO (s): Mold #: 6189-7673 1452-A EU5T-14A464-TB Eng. Change Documents: 4/22/2015

CAVITY #:

CAVITY #:		46.00	20.05	 	45.40	40.00	00.05	
M1	15.40	16.90	30.95	M2	15.40	16.90	30.95	
	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30		+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	
31	15.44	16.86	30.87		15.41	16.84	30.85	
32	15.43	16.87	30.89	 	_15.41	16.85	30.85	
33	15.44	16.86	30.88		15.41	16.85	30.85	
34	15.43	16.86	30.88		15.42	16.84	30.85	
35	15.44	16.87	30.89		15.42	<u>1</u> 6.85	30.86	
36	15.43	16.86	30.89		15.43	16.84	30.85	
37	15.43	16.86	30.88		15.41	16.84	30.85	
38	15.43	16.87	30.88		15.43	16.85	30.86	
39	15.44	16.86	30.89		15.41	16.84	30.85	
40	15.44	16.86	30.89		15.41	16.84	30.86	
41	15.43	16.85	30.88		15.41	16.83	30.84	
42	15.43	16.87	30.90		15.41	16.84	30.85	
43	15.43	16.86	30.88		15.42	16.84	30.84	
44	15.44	16.87	30.89		15.41	16.84	30.85	
45	15.43	16.87	30.89		15.42	16.83	30.84	
46	15.44	16.86	30.88		15.41	16.84	30.85	
47	15.44	16.86	30.90		15.42	16.83	30.84	
48	15.43	16.87	30.88		15.42	16.83	30.85	
49	15.42	16.86	30.90		15.42	16.84	30.86	
50	15.43	16.85	30.88		15.41	16.85	30.86	
51	15.43	16.87	30.88		15.42	16.85	30.85	
52	15.44	16.86	30.89		15.42	16.84	30.85	
53	15.44	16.86	30.88		15.41	16.85	30.85	
54	15.44	16.85	30.89		15.42	16.83	30.85	
55	15.44	16.86	30.89		15.42	16.84	30.86	
56	15.43	16.86	30.87		15.42	16.84	30.85	
57	15.44	16.85	30.88		15.42			
58	15.43	16.86	30.88			16.84	30.85	
59					15.41	16.84	30.85	
	15.43	16.86	30.88		15.41	16.83	30.85	
60	15.44	16.86	30.89	 	15.42	16.84	30.85	

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)
PART Name/Desc: FOW120A02FA-B

6189-7673

1452-A

PART NO (s):

Mold #:

Prepared by / date

Cindy Meador 9/9/15

Design Rec. Change level/date: EU5T-14A464-TB Eng. Change Documents:

NA

4/22/2015

CAVITY #:♥								
M1	15.40	16.90	30.95	M2	15.40	16.90	30.95	
	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30		+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	
61	15.44	16.86	30.89		15.42	16.84	30.85	
62	15.43	16.86	30.88		15.41	16.84	30.85	
63	15.44	16.86	30.88		15.42	16.84	30.85	
64	15.44	16.86	30.89		15.41	16.85	30.85	
65	15.44	16.85	30.88		15.42	16.85	30.85	
66	15.43	16.86	30.88	 	15.41	16.83	30.86	
67	15.43	16.86	30.88	 	15.42	16.84	30.85	
68	15.44	16.85	30.88		15.41	16.84	30.85	
69	15.44	16.86	30.89		15.42	16.84	30.85	
70	15.44	16.86	30.89		15.41	16.84	30.85	
71	15.43	16.85	30.88		15.41	16.85	30.84	
72	15.43	16.86	30.88		15.42	16.85	30.85	
73	15.44	16.85	30.89		15.42	16.85	30.85	
74	15.43	16.86	30.88		15.41	16.84	30.85	
75	15.44	16.86	30.90		15.41	16.84	30.85	
76	15.44	16.85	30.88		15.43	16.84	30.85	
77	15.45	16.86	30.90		15.42	16.84	30.84	
78	15.43	16.86	30.89		15.42	16.84	30.86	
79	15.43	16.85	30.88	 	15.42	16.83	30.84	
80	15.45	16.86	30.89		15.41	16.83	30.85	
81	15.45	16.86	30.89		15.41	16.85	30.85	
82	15.44	16.87	30.88		15.41	16.84	30.84	
83	15.43	16.86	30.88		15.42	16.84	30.85	
84	15.44	16.86	30.88		15.42	16.84	30.85	
85	15.43	16.85	30.89		15.41	16.83	30.85	
86	15.43	16.86	30.88		15.41	16.84	30.86	
87	15.46	16.86	30.88		15.42	16.83	30.85	
88	15.43	16.84	30.88		15.41	16.84	30.85	

15.41

15.42

16.84

16.83

30.84

30.85

CPK MEAS DATA ORIGINAL DATE: 11/18/02 LAST REVISION: 6/5/06

15.43

15.43

16.86

16.85

30.88

30.88

89

90

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

PART Name/Desc:

FOW120A02FA-B

Prepared by / date
Design Rec. Change level/date:

Cindy Meador 9/9/15

PART NO (s):

6189-7673

EU5T-14A464-TB

4/22/2015

CAVITY#

Mold #:

4.400 1	
1452-A	
ITUL II	

Eng. Change Documents:

NA

CAVITY #:▼	<u> </u>							
M1	15.40	16.90	30.95	M2	15.40	16.90	30.95	
	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30		+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	
91	15.44	16.85	30.89		15.41	16.83	30.85	
92	15.44	16.86	30.88		15.42	16.84	30.85	
93	15.44	16.85	30.88		15.41	16.84	30.85	
94	15.44	16.85	30.89		15.41	16.84	30.84	
95	15.43	16.86	30.87		15.41	16.84	30.85	
96	15.44	16.86	30.88		15.42	16.85	30.85	
97	15.43	16.85	30.89		15.41	16.84	30.84	
98	15.45	16.86	30.89		15.41	16.83	30.84	
99	15.44	16.86	30.88		15.41	16.85	30.85	
100	15.43	16.86	30.88		15.42	16.85	30.84	
					4- 44			
average	15.44	16.86	30.89		15.41	16.84	30.85	
minimum	15.42	16.84	30.87		15.40	16.83	30.84	
maximum	15.46 0.04	16.87 0.03	30.91 0.04		15.43 0.03	16.87 0.04	30.87 0.03	
range std dev	0.04	0.03	0.04		0.03	0.04	0.03	
sta dev	0.01	0.01	0.01		0.01	0.01	0.01	
LSL	15.10	16.60	30.65		15.10	16.60	30.65	
NOM	15.40	16.90	30.95		15.40	16.90	30.95	
USL	15.70	17.20	31.25		15.70	17.20	31.25	
СРК	12.86937459	13.21405197	9.552570882		14.76911937	11.02813936	12.11874006	

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

PART Name/Desc:

FOW120A02FA-B

Prepared by / date

Cindy Meador 9/9/15

PART NO (s):

6189-7673 1452-A EU5T-14A464-TB

4/22/2015

Mold #:

Eng. Change Documents:

Design Rec. Change level/date:

NA

CAVITY #:▼ 15.40 16.90 30.95 16.90 30.95 15.40 **M3 M4** +0.30 -0.30 +0.30 +0.30 +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 15.41 1 16.84 30.85 15.45 16.84 30.89 2 15.41 16.84 30.85 15.43 16.84 30.88 15.41 16.84 3 30.85 15.43 16.84 30.88 15.40 4 16.83 30.85 15.43 16.85 30.88 5 15.41 16.82 30.84 15.45 16.85 30.88 6 15.42 16.84 30.85 15.43 16.84 30.88 7 15.41 16.84 30.85 15.44 16.85 30.88 8 15.41 16.83 30.85 16.85 15.44 30.89 9 15.41 16.84 30.85 30.88 15.44 16.85 10 15.41 16.84 30.85 15.43 16.85 30.88 11 15.42 16.83 30.86 15.45 16.85 30.88 12 15.41 16.84 30.86 15.46 16.85 30.88 13 15.41 16.84 30.85 15.44 16.85 30.90 14 15.42 16.83 30.85 15.45 16.85 30.89 15 15.42 16.83 30.85 15.44 16.86 30.88 16 15.41 16.82 30.85 15.45 16.84 30.88 17 15.41 16.84 30.85 15.44 16.86 30.89 18 15.41 16.84 30.85 15.45 16.85 30.88 19 15.42 16.84 30.85 15.44 16.85 30.89 20 15.41 16.84 30.85 15.45 16.87 30.89 21 15.42 16.83 30.85 15.44 16.84 30.88 22 15.41 16.83 30.85 15.45 16.86 30.88 23 15.41 16.84 30.85 16.84 15.43 30.87 24 15.42 16.83 30.85 15.44 16.86 30.88 25 15.41 16.84 30.85 15.45 16.85 30.88 26 15.42 16.85 30.85 15.44 16.84 30.87 27 16.84 15.41 30.86 15.44 16.84 30.88 28 15.41 16.83 30.85 15.44 16.85 30.89

15.44

15.43

16.85

16.85

30.88

30.88

CPK MEAS DATA ORIGINAL DATE: 11/18/02 LAST REVISION: 6/5/06

15.41

15.41

29

30

16.84

16.83

30.84

30.85

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)
PART Name/Desc: FOW120A02FA-B

Prepared by / date

Cindy Meador 9/9/15

PART NO (s):

6189-7673

Design Rec. Change level/date: EU5T-14A464-TB

4/22/2015

Mold #:

1452-A

Eng. Change Documents:

NA

CAMITY #4

CAVITY #:▼								
МЗ	15.40	16.90	30.95	M4	15.40	16.90	30.95	
1110	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30		+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	
31	15.41	16.83	30.84		15.43	16.85	30.88	
32	15.41	16.84	30.85		15.44	16.85	30.88	
33	15.41	16.84	30.85		15.45	16.85	30.88	
34	15.41	16.83	30.85		15.43	16.87	30.89	
35	15.41	16.84	30.85		15.45	16.86	30.89	
36	15.42	16.83	30.86		15.43	16.84	30.87	
37	15.42	16.83	30.85		15.44	16.84	30.89	
38	15.42	16.84	30.85		15.44	16.85	30.89	
39	15.41	16.85	30.85		15.44	16.86	30.90	
40	15.42	16.84	30.86		15.45	16.85	30.89	
41	15.42	16.84	30.85		15.43	16.84	30.89	
42	15.42	16.85	30.85		15.44	16.85	30.90	
43	15.41	16.84	30.86		15.44	16.85	30.88	
44	15.41	16.83	30.86		15.43	16.84	30.90	
45	15.41	16.83	30.84		15.45	16.85	30.88	
46	15.41	16.84	30.85		15.44	16.84	30.88	
47	15.41	16.84	30.85		15.43	16.84	30.89	
48	15.41	16.83	30.85		15.43	16.84	30.89	
49	15.41	16.85	30.85		15.44	16.85	30.88	
50	15.41	16.83	30.85		15.45	16.85	30.91	
51	15.41	16.83	30.85		15.44	16.84	30.89	
52	15.41	16.83	30.85		15.43	16.84	30.88	
53	15.42	16.84	30.85		15.44	16.85	30.89	
54	15.42	16.83	30.85		15.44	16.85	30.89	
55	15.40	16.83	30.85		15.44	16.86	30.89	
56	15.41	16.84	30.85		15.44	16.84	30.88	
57	15.41	16.84	30.85		15.43	16.84	30.88	
58	15.42	16.83	30.85		15.43	16.85	30.88	
59	15.40	16.83	30.85		15.44	16.85	30.89	
60	15.41	16.82	30.85		15.43	16.84	30.91	

4/22/2015

CPK DATA

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

PART Name/Desc:

FOW120A02FA-B

Prepared by / date

Cindy Meador 9/9/15

PART NO (s):

6189-7673 1452-A

Design Rec. Change level/date: EU5T-14A464-TB Eng. Change Documents:

NA

CAMEN #1

Mold #:

CAVITY#:▼								
МЗ	15.40	16.90	30.95	М4	15.40	16.90	30.95	
	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30		+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	
61	15.42	16.84	30.84		15.44	16.85	30.89	
62	15.42	16.83	30.85		15.43	16.85	30.88	
63	15.42	16.84	30.85		15.44	16.85	30.88	
64	15.43	16.84	30.85		15.45	16.84	30.88	
65	15.41	16.82	30.85		15.43	16.85	30.88	
66	15.41	16.84	30.85		15.44	16.86	30.88	
67	15.41	16.83	30.84		15.44	16.84	30.88	
68	15.41	16.84	30.85		15.46	16.86	30.89	
69	15.41	16.83	30.85		15.45	16.84	30.89	
70	15.41	16.83	30.84		15.44	16.86	30.88	
71	15.41	16.84	30.85		15.44	16.85	30.89	
72	15.41	16.83	30.85		15.43	16.87	30.88	
73	15.41	16.84	30.85		15.43	16.85	30.89	
74	15.41	16.84	30.85		15.45	16.85	30.89	
75	15.41	16.83	30.85		15.45	16.85	30.88	
76	15.41	16.83	30.85		15.43	16.85	30.90	
77	15.41	16.83	30.85		15.44	16.85	30.89	
78	15.41	16.83	30.85		15.44	16.84	30.89	
79	15.41	16.84	30.85		15.44	16.85	30.90	
80	15.41	16.83	30.85		15.43	16.84	30.88	
81	15.41	16.83	30.85		15.44	16.85	30.88	
82	15.42	16.83	30.85		15.43	16.85	30.88	
83	15.41	16.84	30.85		15.44	16.84	30.88	
84	15.41	16.84	30.85		15.44	16.85	30.89	
85	15.41	16.85	30.86		15.43	16.86	30.89	
86	15.41	16.85	30.85		15.44	16.84	30.88	
87	15.41	16.84	30.85		15.43	16.84	30.89	
88	15.41	16.83	30.85		15.43	16.84	30.89	
89	15.41	16.84	30.84		15.44	16.86	30.89	
90	15.41	16.84	30.85		15.44	16.84	30.89	

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

PART Name/Desc:

FOW120A02FA-B

Prepared by / date
Design Rec. Change level/date:

Cindy Meador 9/9/15

PART NO (s):

CPK

6189-7673

EU5T-14A464-TB

4/22/2015

Mold #:

1452-A

18.51735015 11.71728863 15.6347192

Eng. Change Documents:

11.26966079 10.6408697

10.0344144

NA

	7		-					
CAVITY #:								
Ma	15.40	16.90	30.95	MI 4	15.40	16.90	30.95	
М3	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	M4	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	
91	15.41	16.83	30.85		15.44	16.84	30.89	
92	15.41	16.83	30.85		15.43	16.85	30.88	
93	15.41	16.83	30.85		15.44	16.84	30.91	
94	15.41	16.84	30.84		15.43	16.86	30.88	
95	15.41	16.83	30.85		15.43	16.86	30.89	
96	15.40	16.84	30.85		15.44	16.85	30.89	
97	15.41	16.84	30.85		15.45	16.85	30.88	
98	15.42	16.84	30.85		15.43	16.84	30.89	
99	15.41	16.84	30.85		15.43	16.86	30.88	
100	15.42	16.84	30.86		15.44	16.84	30.88	
average	15.41	16.84	30.85		15.44	16.85	30.89	
minimum	15.40	16.82	30.84		15.43	16.84	30.87	
maximum	15.43 0.03	16.85 0.03	30.86 0.02		15.46	16.87	30.91	
range std dev	0.03	0.03	0.02		0.03 0.01	0.03 0.01	0.04 0.01	
222 441	2.01	2.01	2.00		0.01	0.01	0.01	
LSL	15.10	16.60	30.65		15.10	16.60	30.65	
NOM	15.40	16.90	30.95		15.40	16.90	30.95	
USL	15.70	17.20	31.25		15.70	17.20	31.25	

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)
PART Name/Desc: FOW120A02FA-B

Prepared by / date

Cindy Meador 9/9/15

PART NO (s):

6189-7673

1452-A

Design Rec. Change level/date: EU5T-14A464-TB

4/22/2015

Eng. Change Documents:

NA

CAVITY#:♥

Mold #:

CAVITY#:	15.40	16.90	30.95	Me	15.40	16.90	30.95	
M5	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	M6	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	
1	15.44	16.88	30.89		15.41	16.83	30.86	
2	15.45	16.86	30.88		15.42	16.85	30.86	
3	15.44	16.86	30.89		15.40	16.83	30.85	
4	15.44	16.86	30.89		15.41	16.83	30.86	
5.	15.44	16.85	30.88		15.41	16.83	30.86	
6	15.45	16.85	30.88		15.41	16.82	30.86	
7	15.44	16.86	30.88		15.41	16.83	30.85	
8	15.44	16.86	30.88		15.42	16.83	30.86	
9	15.43	16.85	30.88		15.42	16.83	30.86	
10	15.44	16.85	30.89		15.42	16.84	30.89	
11	15.45	16.85	30.89		15.41	16.84	30.87	
12	15.44	16.85	30.89		15.41	16.83	30.86	
13	15.44	16.86	30.88		15.42	16.83	30.87	
14	15.44	16.86	30.88		15.41	16.83	30.88	
15	15.45	16.86	30.90		15.42	16.84	30.86	
16	15.45	16.86	30.89		15.42	16.84	30.86	
17	15.44	16.86	30.89		15.41	16.83	30.89	
18	15.43	16.87	30.88		15.41	16.83	30.88	
19	15.45	16.86	30.89		15.42	16.82	30.87	
20	15.44	16.86	30.89		15.41	16.83	30.85	
21	15.45	16.85	30.87		15.42	16.85	30.86	
22	15.45	16.86	30.89		15.42	16.84	30.85	_
23	15.44	16.85	30.87		15.41	16.85	30.87	
24	15.44	16.86	30.90		15.42	16.83	30.87	\dashv
25	15.44	16.86	30.89		15.41	16.84	30.88	\dashv
26	15.44	16.86	30.89		15.41	16.82	30.85	_
27	15.44	16.86	30.88	 	15.41	16.86	30.87	\dashv
28	15.44	16.86	30.88	 	15.41	16.84	30.86	_
29	15.44	16.86	30.90		15.42	16.82	30.87	_
30	15.44	16.85	30.88		15.42	16.84	30.85	

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

PART Name/Desc:

FOW120A02FA-B

Prepared by / date Design Rec. Change level/date:

Cindy Meador 9/9/15

PART NO (s):

6189-7673 1452-A

EU5T-14A464-TB Eng. Change Documents: 4/22/2015

NA

CAVITY#4

Mold #:

CAVITY #:	15.40	16.90	30.95		140	15.40	16.90	30.95	
M5	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30		M6	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	
31	15.43	16.86	30.88			15.41	16.83	30.86	
32	15.44	16.85	30.88			15.41	16.83	30.86	
33	15.43	16.85	30.89			15.41	16.83	30.87	
34	15.45	16.85	30.89	·		15.40	16.83	30.87	
35	15.44	16.86	30.87			15.40	16.83	30.85	
36	15.45	16.86	30.89			15.42	16.85	30.89	
37	15.44	16.86	30.88			15.42	16.83	30.86	
38	15.43	16.85	30.88			15.41	16.83	30.87	
39	15.44	16.86	30.88			15.41	16.84	30.87	
40	15.44	16.86	30.88			15.41	16.83	30.86	
41	15.44	16.87	30.90			15.41	16.83	30.86	
42	15.44	16.84	30.88			15.41	16.83	30.85	
43	15.44	16.86	30.88			15.41	16.84	30.86	
44	15.43	16.85	30.89			15.40	16.83	30.85	
45	15.45	16.86	30.88			15.42	16.84	30.86	
46	15.44	16.86	30.89			15.40	16.83	30.85	
47	15.43	16.86	30.89			15.42	16.84	30.87	
48	15.45	16.86	30.89			15.42	16.84	30.87	
49	15.44	16.86	30.88			15.42	16.84	30.86	
50	15.45	16.86	30.89			15.41	16.83	30.86	
51	15.46	16.86	30.88			15.41	16.83	30.87	
52	15.44	16.85	30.89			15.42	16.83	30.87	
53	15.45	16.85	30.89			15.41	16.83	30.87	
54	15.45	16.86	30.88			15.41	16.83	30.88	
55	15.44	16.85	30.88			15.42	16.85	30.86	
56	15.43	16.85	30.89			15.41	16.83	30.86	
57	15.44	16.86	30.89			15.43	16.86	30.88	
58	15.43	16.85	30.88			15.42	16.84	30.87	
59	15.44	16.86	30.88			15.42	16.83	30.86	
60	15.43	16.85	30.88			15.42	16.85	30.87	

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)
PART Name/Desc: FOW120A02FA-B

Prepared by / date

Cindy Meador 9/9/15

PART NO (s):

6189-7673

EU5T-14A464-TB

4/22/2015

Mold #:

1452-A

Eng. Change Documents:

Design Rec. Change level/date:

NA

CAVITY #4

CAVITY #: ▼								
М5	15.40	16.90	30.95	M6	15.40	16.90	30.95	
	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	 	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	
61	15.44	16.85	30.88		15.40	16.86	30.86	
62	15.44	16.86	30.88		15.41	16.85	30.86	
63	15,43	16.85	30.89		15.41	16.82	30.86	
64	15.44	16.87	30.89		15.42	16.83	30.86	
65	15.44	16.85	30.88	 	15.42	16.83	30.85	
66	15.44	16.86	30.88		15.41	16.83	30.86	
67	15.44	16.86	30.88		15.42	16.83	30.86	
68	15.43	16.85	30.89		15.41	16.84	30.86	
69	15.42	16.86	30.88		15.42	16.83	30.86	
70	15.43	16.85	30.89		15.42	16.85	30.87	
71	15.43	16.86	30.89		15.41	16.84	30.87	
72	15.43	16.85	30.89		15.42	16.84	30.85	
73	15.44	16.87	30.89		15.41	16.84	30.86	
74	15.45	16.87	30.90		15.41	16.83	30.86	
75	15.44	16.86	30.89		15.41	16.83	30.86	
76	15.43	16.86	30.88	 	15.42	16.84	30.86	
77	15.44	16.86	30.88		15.42	16.84	30.85	
78	15.44	16.86	30.88		15.42	16.83	30.86	
79	15.44	16.86	30.88		15.42	16.84	30.87	
80	15.45	16.86	30.89		15.41	16.83	30.85	
81	15.44	16.87	30.89		15.42	16.83	30.86	
82	15.43	16.87	30.88		15.41	16.85	30.88	
83	15.43	16.85	30.88		15.41	16.84	30.86	
84	15.44	16.85	30.89	 	15.42	16.83	30.88	
85	15.44	16.87	30.88	 	15.41	16.85	30.86	
86	15.43	16.86	30.88		15.41	16.83	30.87	
87	15.44	16.86	30.88		15.41	16.83	30.85	
88	15.44	16.85	30.89		15.44	16.86	30.89	
89	15.45	16.86	30.88	 	15.42	16.83	30.87	
90	15.45	16.85	30.89		15.42	16.86	30.86	

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

1452-A

PART Name/Desc: PART NO (s):

FOW120A02FA-B

6189-7673

Prepared by / date

Cindy Meador 9/9/15

NA

Design Rec. Change level/date: EU5T-14A464-TB

15.70

17.20

13.5818135 8.098994971 6.886892774

31.25

Eng. Change Documents:

4/22/2015

USL

CPK

15.70

17.20

11.7300407 12.92767299 11.42342794

31.25

Mold #:

M5	15.4	40	16	.90	30.	95	M6	15.	.40	16	.90	30.	.95	
MIS	+0.30	-0.30	+0.30	-0.30	+0.30	-0.30	INIO	+0.30	-0.30	+0.30	-0.30	+0.30	-0.30	
91	15.44		16.85		30.89			15.41		16.83		30.86		
92	15.44		16.86		30.88			15.43		16.86		30.88		
93	15.43		16.85		30.90			15.42		16.83		30.86		
94	15.44		16.86		30.89			15.41		16.84		30.86		
95	15.44		16.86		30.90			15.42		16.83		30.87		
96	15.45		16.86		30.90			15.42		16.85		30.89		
97	15.46		16.87		30.89			15.41		16.83		30.89		
98	15.45		16.86		30.88			15.43		16.85		30.86		
99	15.44		16.86		30.89			15.41		16.84		30.86		
100	15.43		16.86		30.88			15.41		16.83		30.86		
average	15.4	14	16.	.86	30.	89		15.	41	16	.84	30.	86	
minimum	15.4	12	16.	.84	30.	87		15.	40	16	.82	30.	85	
maximum	15.4	16	16.	.88	30.	90		15.	44	16	.86	30.	89	
range	0.0	4	0.	04	0.0	03		0.0)4	0.	04	0.0)4	
std dev	0.0	1	0.	01	0.0	01		0.0	01	0.	01	0.0	01	
LSL	15.1	10	16.	.60	30.	65		15.	10	16	.60	30.	65	
NOM	15.4	10	16.	.90	30.	95		15.	40	16	.90	30.	95	

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

PART Name/Desc:

FOW120A02FA-B

Prepared by / date Design Rec. Change level/date:

Cindy Meador 9/9/15

NA

PART NO (s):

6189-7673

EU5T-14A464-TB

4/22/2015

Mold #: 1452-A Eng. Change Documents:

CAVITY #:								
M7	15.40	16.90	30.95	M8	15.40	16.90	30.95	
	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30		+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	
11	15.42	16.84	30.85		15.44	16.86	30.88	
2	15.42	16.83	30.85		15.43	16.85	30.88	
3	15.42	16.83	30.86		15.44	16.86	30.88	
4	15.42	16.84	30.85		15.45	16.86	30.88	
5	15.42	16.83	30.87		15.44	16.86	30.88	
6	15.42	16.83	30.87		15.43	16.85	30.88	
7	15.42	16.83	30.85		15.45	16.87	30.88	
- 8	15.42	16.83	30.87		15.46	16.86	30.88	
9	15.42	16.83	30.85		15.45	16.87	30.89	
10	15.42	16.83	30.85		15.44	16.86	30.88	
11	15.42	16.83	30.87		15.44	16.86	30.88	
12	15.41	16.82	30.86		15.44	16.85	30.90	
13	15.43	16.84	30.86		15.44	16.87	30.88	
14	15.42	16.83	30.85		15.44	16.88	30.90	
15	15.42	16.84	30.85		15.44	16.86	30.89	
16	15.42	16.85	30.85		15.45	16.89	30.88	
17	15.42	16.82	30.85		15.44	16.87	30.88	
18	15.43	16.83	30.86		15.43	16.85	30.88	
19	15.42	16.83	30.85		15.42	16.86	30.88	
20	15.41	16.83	30.86		15.45	16.87	30.89	
21	15.42	16.82	30.86		15.44	16.86	30.89	
22	15.42	16.84	30.87		15.44	16.87	30.89	
23	15.42	16.83	30.86		15.44	16.86	30.90	
24	15.42	16.83	30.87		15.43	16.87	30.89	
25	15.44	16.84	30.89		15.44	16.87	30.89	
26	15.43	16.83	30.86		15.45	_16.88	30.90	
27	15.43	16.84	30.89		15.44	16.86	30.88	
28	15.42	16.84	30.86		15.43	16.87	30.88	
29	15,42	16.84	30.86		15.44	16.86	30.88	
30	15.42	16.83	30.85		15.44	16.87	30.89	

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)

PART Name/Desc:

FOW120A02FA-B

Prepared by / date

Cindy Meador 9/9/15

PART NO (s):

6189-7673

Design Rec. Change level/date: EU5T-14A464-TB

15.44

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4/22/2015

Mold #: 1452-A

Eng. Change Documents:

NA

CAVITY #:₩ 15.40 16.90 30.95 16.90 30.95 15.40 **M7 M8** +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 31 15.41 16.83 30.86 15.44 16.87 30.87 32 15.42 16.83 30.85 15.44 16.87 30.88 15.44 16.83 30.86 33 15.45 16.87 30.88 34 15.43 16.84 30.88 15.44 16.87 30.90 35 15.42 16.84 30.87 15.43 16.87 30.89 15.43 36 16.84 30.87 15.45 16.87 30.88 16.84 30.86 15.42 37 15.43 16.87 30.88 38 15.42 16.85 30.88 15.44 16.86 30.90 16.86 30.88 39 15.42 16.83 30.86 15.43 40 15.42 16.83 30.85 15.43 16.87 30.89 41 15.42 16.83 30.86 15.44 16.86 30.88 42 15.42 16.83 30.87 15.44 16.89 30.90 43 15.42 16.83 30.86 15.<u>4</u>4 16.86 30.90 15.42 16.83 30.85 44 15.43 16.86 30.89 45 15.42 16.84 30.86 15.44 16.86 30.90 46 15.44 16.84 30.86 15.44 16.86 30.88 16.83 47 15.42 30.87 15.42 16.85 30.89 48 15.42 16.84 30.86 15.44 16.86 30.88 49 15.42 16.84 30.86 15.44 16.86 30.88 50 15.43 16.84 30.86 16.88 30.89 15.44 51 15.42 16.83 30.86 15.44 16.87 30.89 52 15.42 16.83 30.87 15.44 30.88 16.87 53 15.42 16.84 30.86 15.44 16.87 30.89 54 15.42 16.83 30.86 15.43 16.86 30.88

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30.87

30.85

30.86

30.86

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5)
PART Name/Desc: FOW120A02FA-B

Prepared by / date Design Rec. Change level/date:

Cindy Meador 9/9/15

PART NO (s): Mold #:

6189-7673

EU5T-14A464-TB

4/22/2015

	CAV	ITY	#:
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1452-A

Eng. Change Documents:

NA

CAVITY #:		46.00	20.05		45.40	40.00		
M7	15.40	16.90	30.95	M8	15.40	16.90	30.95	
	+0.30 -0.30	+0.30 -0.30	+0.30 -0.30		+0.30 -0.30	+0.30 -0.30	+0.30 -0.30	
61	15.41	16.84	30.86	 	15.44	16.87	30.88	
62	15.42	16.84	30.88		15.43	16.87	30.88	
63	15.41	16.85	30.86		15.44	16.86	30.89	
64	15.43	16.86	30.87		15.44	16.89	30.89	
65	15.43	16.83	30.86		15.44	16.87	30.90	
66	15.42	16.83	30.86	 	15.44	16.86	30.91	
67	15.42	16.84	30.86		15.43	_16.86	30.89	
68	15.42	16.85	30.87		15.43	16.85	30.88	
69	15.42	16.83	30.86		15.44	16.87	30.89	
70	15.42	16.83	30.86		15.44	16.88	30.89	
71	15.43	16.85	30.89	 	15.44	16.87	30.89	
72	15.42	16.84	30.86	 	15.45	16.88	30.89	
73	15.42	16.83	30.88		15.44	16.87	30.90	
74	15.43	16.83	30.86		15.43	16.88	30.88	
75	15.42	16.84	30.87		15.43	16.87	30.89	
76	15.42	16.83	30.89	 	15.45	16.87	30.91	
77	15.43	16.86	30.87	 	15.43	16.86	30.89	
78	15.42	16.84	30.85		15.44	16.87	30.88	
79	15.41	16.83	30.86		15.43	16.87	30.90	
80	15.43	16.86	30.86	 	15.44	16.86	30.90	
81	15.42	16.83	30.88		15.43	16.86	30.88	
82_	15.42	16.83	30.86		15.44	16.87	30.89	
83	15.41	16.84	30.87		15,44	16.87	30.89	
84	15.43	16.83	30.88		15.44	16.86	30.90	
85	15.41	16.83	30.85		15.44	16.87	30.89	
. 86	15.42	16.84	30.86		15.43	16.87	30.89	
_ 87	15,42	16.84	30.86		15.44	16.87	30.89	
88	15.42	16.83	30.86		15.44	16.86	30.88	
89	15.42	16.84	30.86		15.44	16.86	30.88	

ORGANIZATION: SUMITOMO ELECTRIC WIRING SYSTEMS (PLT.5) Prepared by / date Cindy Meador 9/9/15 PART Name/Desc: FOW120A02FA-B Design Rec. Change level/date: PART NO (s): 6189-7673 EU5T-14A464-TB 4/22/2015 Mold #: 1452-A Eng. Change Documents: NA CAVITY #:₩ 15.40 16.90 30.95 15.40 16.90 30.95 **M7** M8 +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 +0.30 -0.30 +0.30 90 15.42 16.83 30.86 15.44 16.87 30.92 91 15.42 16.85 30.86 15.43 16.87 30.89 92 15.42 16.84 30.86 15.44 16.87 30.88 93 15.42 16.84 30.86 15.45 16.87 30.88 94 15.42 16.84 30.86 15.44 16.86 30.89 95 15.43 16.86 30.85 15.44 16.86 30.90 96 15.42 16.86 30.85 15.45 16.86 30.88 97 15.44 16.84 30.86 15.44 16.87 30.88 98 15.42 16.84 30.86 16.86 15.44 30.89 99 15.42 16.84 30.86 15.44 16.87 30.88 100 15.42 16.84 30.87 15.44 16.87 30.89 average 15.42 16.84 30.86 15.44 16.87 30.89 15.41 minimum 16.82 30.85 15.42 16.85 30.87 maximum 15.44 16.86 30.89 15.46 16.89 30.92 range 0.03 0.04 0.04 0.04 0.04 0.05 std dev 0.01 0.01 0.01 0.01 0.01 0.01 LSL 15.10 16.60 30.65 15.10 16.60 30.65 NOM 15.40 16.90 30.95 15.40 16.90 30.95

15.70

17.20

12.87474752 10.74136744 8.991264309

31.25

CPK MEAS DATA ORIGINAL DATE: 11/18/02 LAST REVISION: 6/5/06

USL

CPK

15.70

17.20

14.70270083 9.280787866 7.256600531

31.25

WORK INSTRUCTION

AREA:

QUALITY ASSURANCE LAB

TITLE

LABORATORY SCOPE - SCOTTSVILLE (SV5 & SV5 Building 2)

PURPOSE:

To summarize the testing capabilities available at Scottsville Plant (SV5 & Building 2), and to clarify the equipment, tests performed, standards, recording method and reaction plan.

APPLICATION:

Scottsville (SV5 & Building 2)

RULE ENFORCER:

QA Coordinator / Above

SV5 Tests Performed

EQUIPMENT USED	TEST METHODS / STANDARD	RECORDING METHOD	REACTION METHOD
Tinius Oisen Extrusion Plastometer	QRW - MELTFLOW	Melt Index Record	Reject Tag Procedure
Waterproof Tester	QAW - WATERPROOFTEST	Inspection Data Sheet	Reject Tag Procedure
Moisture Tester	F-A-SV5-010	Moisture Test Data Sheet	Reject Tag Procedure
Force Gage	QAW - INSERTRETPROC	Inspection Date Sheet	Reject Tag Procedure
Profile / Caliper / Micrometer / Depth Gage	Inspection Instruction Sheet	Inspection Data Sheet	Rejact Tag Procedure
Scale	Inspection Instruction Sheet	Inspection Data Sheet	Reject Tag Procedure
Freezer	SWS Inspection Standard	Inspection Data Sheet	Reject Tag Procedure
	Tinius Olsen Extrusion Plastometer Waterproof Tester Moisture Tester Force Gage Profile / Caliper / Micrometer / Depth Gage Scale	Tinius Oisen Extrusion Plastometer Waterproof Tester WaterProof Tester WATERPROOFTEST Moisture Tester F-A-SV5-010 Force Gage QAW - INSERTRETPROC Profile / Caliper / Micrometer / Depth Gage Inspection Instruction Sheet Freezer SWS Inspection	Tinius Oisen Extrusion Plastometer Waterproof Tester Waterproof Tester WaterPROOFTEST Moisture Tester F-A-SV5-010 Profile / Caliper / Micrometer / Depth Gage Scale Inspection Instruction Sheet Sheet METHOD Meit Index Record Inspection Data Sheet Inspection Data Sheet Inspection Data Sheet Inspection Instruction Sheet Inspection Data Sheet Freezer SWS Inspection Inspection Data Sheet

SV5 (Building 2) Tests Performed

TESTS PERFORMED	EQUIPMENT USED	TEST METHODS / STANDARD	RECORDING METHOD	REACTION METHOD
Hardness Test	Hardness Tester	H-A-001	Hardness Test Data Sheet	Reject Tag Procedure
Insertion / Retention Test	Force Gage	QAW - INSERTRETPROC	Inspection Data Sheet	Reject Tag Procedure
Contact Force Test	Contact Force Gage	MSW-Force Gage	Inspection Data Sheet	Reject Tag Procedure
Dimensional Measurement	Profile / Keyence System / OGP / Caliper / Micrometer / Depth Gage / Sllp Gages	SWS Inspection Standard	Inspection Data Sheet	Reject Tag Procedure

QAF - WORKINSTRUCTION - A ORIGINAL DATE: 6/8/00 LAST REVISION: 6/15/06

FILE NAME: QAW-LABSCOPE-D ORIGINAL DATE 2006: LAST REVISION: 9/24/12

WORK INSTRUCTION

AREA:

QUALITY ASSURANCE LAB

TITLE

LABORATORY SCOPE - SCOTTSVILLE (SV5 & SV5 Building 2)

Equipment Calibrations

	EQUIPMENT USED	TEST METHODS / STANDARD	RECORDING METHOD	REACTION METHOD
Calipers, Micrometers, Depth Gages, Weigh Scales, other process tools/jigs.	Certified Gages (Gage Blocks & Weights)	Per Calibration Procedure	Calibration Record and Gagetrak	Reject Tag Procedure
Force Gages	Certified Weights			
Freezer	Certified Meter			
Melt Indexer	Outside Vendor			
Moisture Analyzer	Outside Vendor			
Water Pressure Gage	Outside Vendor			
Hardness Tester	Outside Vendor			
Optical Comparator (Profile)	Outside Vendor	;		
Keyence Measurement Scope	Outside Vendor	1		
OGP	Outside Vendor	i		

DAT	MIFR	Сня	YSLER
וחע	TLLL	OHIK	TOPPI

Ford	



Part Submission Warrant

Part Name FOW120A02FA-B	Cust. Part Number	6189-7673
Shown on Drawing No. EU5T-14A464-TB	Org. Part Number	6189-7673
Engineering Drawing Change Level K1		Date 01/10/2015
Additional Engineering Changes N/A		Dated N/A
Safety and/or Government Regulation Yes No Purchase Order No.	N/A	Weight (kg) 0.0030
Checking Aid No. N/A Checking Aid Engineering Change Level	N/A	DatedN/A
ORGANIZATION MANUFACTURING INFORMATION CUST	TOMER SUBMITTAL INFORMA	ATION
Sumitomo Wiring Systems, Inc. / SEWS		
Organization Name & Supplier/Vendor Code Custo	omer Name/Division	
7500 Viscount Blvd. suite 192 / 2687 Old Gallatin Rd. N/A Street Address Buyer.	r/Buyer Code	
EL Paso, TX 79925 / Scottsville Ky. 42164 USA Autom	notive	
City Region Postal Code Country Applic	cation	
MATERIALS REPORTING Has customer-required Substances of Concern information been reported? ✓ Submitted by IMDS or other customer format: IMDS ID: 60579	Yes No 9052 / 1	n/a
Are polymeric parts identified with appropriate ISO marking codes?	Yes No	√ n/a
REASON FOR SUBMISSION (Check at least one)	Change to Optional C Supplier or Material S Change in Part Proce Parts Produced at Ad Other - please specify	ssing ditional Location
REQUESTED SUBMISSION LEVEL (Check one)		
Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted Level 2 - Warrant with product samples and limited supporting data submitted to customer. Level 3 - Warrant with product samples and complete supporting data submitted to customer. Level 4 - Warrant and other requirements as defined by customer. Level 5 - Warrant with product samples and complete supporting data reviewed at supplier's manufactu		
SUBMISSION RESULTS		
The results for √ material and functional tests These results meet all design record requirements: √ Yes NO (If "NO Mold / Cavity / Production Process Mold 1452-A (M1-M8) Mold 1565-A (M9-M16) / INJ. MOLD / At	appearance criteria O" - Explanation Required) SSEMBLY	√ statistical process package
DECLARATION I affirm that the samples represented by this warrant are representative of our parts which were made by a process that meets a affirm that these samples were produced at the production rate of 25,600 / 8 hours. I also certify that documented evidence of from this declaration below. EXPLANATION/COMMENTS:		
Is each Customer Tool properly tagged and numbered? Yes No	√ n/a	
Organization Authorized Signature	Date	September 29, 2016
Print Name Javier Vargas/ Veronica de Santiago Phone No.	(915) 843-3000	FAX No. (915) 843-3001
		s.veronica@us.sws.co.jp
FOR CUSTOMER USE ONLY (IF APPLI	,	
Part Warrant Disposition: Approved Rejected Customer Signature	Other	Date
Print Name Customer tra	acking number (optional)	