
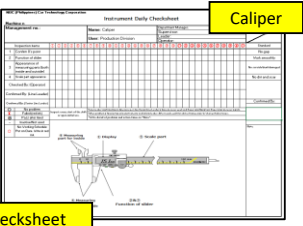
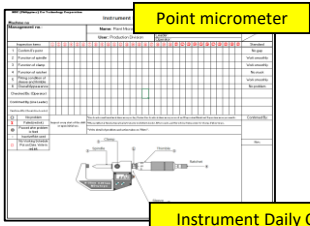
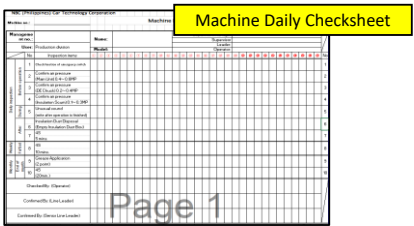
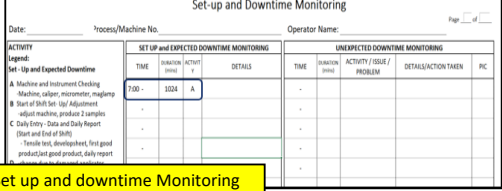
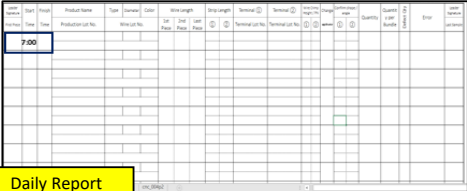
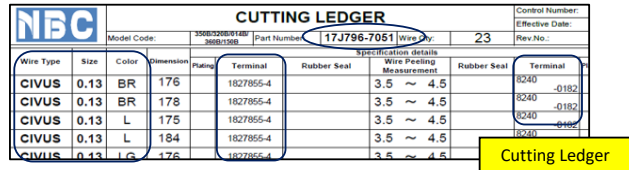




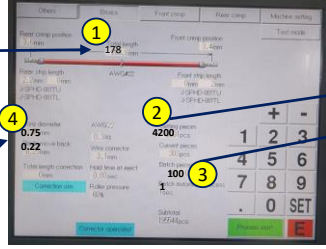
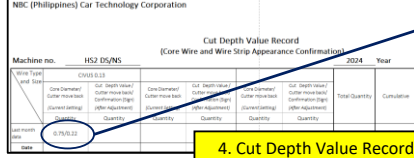
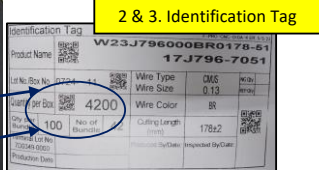
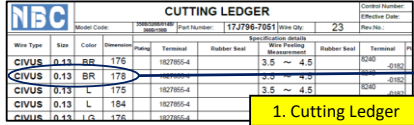
	Process Name/ Title:		Document No:	WI-PRO-CNC-076	
	Wire Cutting and Crimping / Highspeed Machine Process Flow		Effective Date:		August 7, 2024
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No.	Work Procedure/ Illustration	Remarks
	<p>1. Check work area. Conduct 5's. Prepare need for production such as box for crimp wire, wire tray/plastic, rubber band and paper.</p> <p>2. Open Wire cutting and Crimping daily Report. Enter Start time. Update Set up and Downtime monitoring. Start time for legend (A) activity Check machine and instrument. Properly check each check items. Activity end time.</p> <div></div> <p>3 Check plan. Prepare materials needed. Start time Legend (B) activity.</p> <p>3.1 Get tag from the rack. Scan tag to check materials needed put ID tag in the table after scanning.</p> <div></div> <p>3.2 Get wire, terminal and applicator from the rack and set up to machine. Refer to Cutting ledger. Wire set up. Applicator and terminal set up.</p> <div></div> <p>3.3 Produce 2 good samples for Developsheet Crimp Data gathering.</p> <p>A. Input data in operating panel.</p> <ol style="list-style-type: none"><li>Enter Total length refer to cutting ledger.</li><li>Enter Setting pieces/Quantity needed refer to ID tag.</li><li>Enter Batch Pieces refer to ID tag. Batch automatic pieces must be 1 second only.</li><li>Enter Core diameter and Blade move back refer to Cut depth value record.</li></ol> <div></div>	

F-PRO-CNC-003  
F-PRO-CNC-004

Note:  
Start/continue operation if machine is already set up during weekdays. Do the activities while machine is running.

F-PRO-CNC-002A&B  
F-PRO-CNC-015

F-PRO-CNC-010A  
CL-ENG-PDE



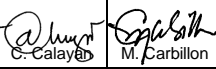
CL-ENG-PDE  
WI-PRO-CNC-056  
WI-PRO-CNC-070

Note:  
If machine already set up proceed to next step.

F-PRO-CNC-008

CL-ENG-PDE  
F-PRO-CNC-010A

F-PRO-CNC-007

						Prepare		Check		Approve	
											
08/07/2024	0	Initial issue.		M. Lipapao	W. Bergado	C. Calayan	M. Carbillon	M. Lipapao	W. Bergado	C. Calayan	M. Carbillon
Eff./Rev. Date	Rev. No.	Details of change		Revise	Check	Approve	Est. date:	August 7, 2024			

No.

Work Procedure/ Illustration

Remarks

B. Record and checking of core wire/strip condition.

1. Feed wire. Press arrow forward.
2. Press Process start.
3. Press Sample process (No crimp)
4. Measure strip length. Peel insulation from strip part to check.
5. Record the Core diameter and Blade move back in Cut depth value record.

(Core Wire and Wire Strip Appearance Confirmation)										
Machine no.	HS2 DS/NS		2024		Year		7		Month	
Wire Type and Size	CHVUS 0.13									
	Core Diameter / Cutter move back Confirmation (Sign)	Cut Depth Value / Cutter move back Confirmation (Sign)	Core Diameter / Cutter move back Confirmation (Sign)	Cut Depth Value / Cutter move back Confirmation (Sign)	Core Diameter / Cutter move back Confirmation (Sign)	Cut Depth Value / Cutter move back Confirmation (Sign)	Core Diameter / Cutter move back Confirmation (Sign)	Cut Depth Value / Cutter move back Confirmation (Sign)	Total Quantity	Cumulative
	(Current Setting)	(After Adjustment)	(Current Setting)	(After Adjustment)	(Current Setting)	(After Adjustment)	(Current Setting)	(After Adjustment)	Quantity	Quantity
last month	0.75/0.22									21000
	0.75/0.22									

C. Setting and adjustments.

1. Feed wire. Press arrow forward.
2. Press Process start.
3. Press Feed terminal on front and Feed terminal on rear to feed terminal.
4. Press Step by step mode.
5. Press Next step, Next step.
6. Press Crimp in front and Next step in rear to Crimp.
7. Press Finish step feed after crimp in rear.
8. Check appearance, checkpoint and measure crimp height & width and insulation height & width both terminal.  
Refer to Terminal specification per part number.
9. Press Setting to set and save adjustments.  
Make adjustments if necessary (crimp height and insulation height, protruded wire)

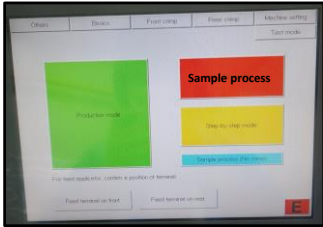
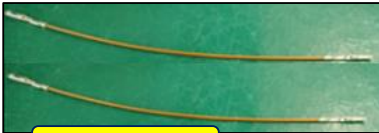
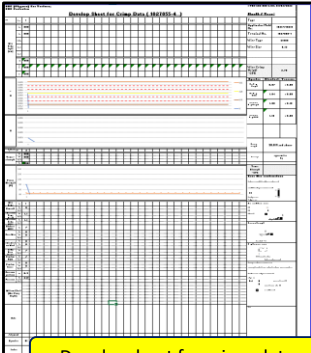
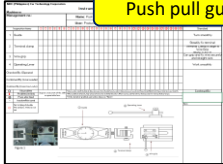

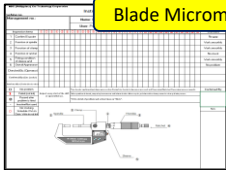
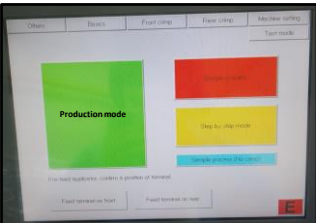

WI-PRO-CNC-011  
WI-PRO-CNC-017  
WI-PRO-CNC-023  
F-PRO-CNC-007

Note:  
If encounter cut/scratch STOP.  
CALL and WAIT.

WI-PRO-CNC-010  
WI-PRO-CNC-026  
WI-PRO-CNC-005  
TS-ENG-PDE

Note :  
Maximum of 5 pieces samples only in adjustments, if cannot set require specs call Leader.

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No.	Work Procedure/ Illustration	Remarks																																																																												
	<p>D. Produce second sample</p> <ol style="list-style-type: none"> <li>1. Feed wire. Press arrow forward.</li> <li>2. Press Process start</li> <li>3. Press Sample process. Activity B end time.</li> </ol>   <p>Two good sample</p> <p>4. Daily Entry start time legend (C) activity.</p> <p>4.1 Gather data in Developsheet for Crimp data.</p> <p>A. Measure both samples. Record require data.</p> <p>B. Check instruments. Perform checking of Tensile strength and check crimp burr if necessary.</p> <p>C. Record crimp pressure (Maximum pressure).</p>  <p>Developsheet for crimp data</p>  <p>Push pull gauge</p>  <p>Pressure</p>  <p>Blade Micrometer</p> <p>4.2 Record data in Daily Report</p> <p>A. Scan ID tag for Product Name and Production Lot Number.</p> <p>B. Input/scan wire details (type,diameter,color and lot number).</p> <p>C. Record strip length 1 and 2.</p> <p>D. Input Terminal 1, Terminal 2 and lot number.</p> <p>E. Record Quantity and quantity per bundle.</p> <table border="1"> <thead> <tr> <th>Leader Signature</th> <th>Start Time</th> <th>Finish Time</th> <th>Product Name</th> <th>Type</th> <th>Diameter</th> <th>Color</th> <th>Wire Length</th> <th>Strip Length</th> <th>Terminal ①</th> <th>Terminal ②</th> <th>Wire Crimp Height (PH)</th> <th>Change</th> <th>Confirm shape / angle</th> <th>Quantity</th> <th>Quantity per bundle</th> <th>Defect Qty</th> <th>Error</th> <th>Leader Signature</th> </tr> <tr> <th>First Piece</th> <th></th> <th></th> <th>Production Lot No.</th> <th>Wire Lot No.</th> <th>1st Piece</th> <th>2nd Piece</th> <th>Last Piece</th> <th>① ②</th> <th>Terminal Lot</th> <th>Terminal Lot No.</th> <th>① ②</th> <th>applier</th> <th>① ②</th> <th>Quantity</th> <th>per bundle</th> <th></th> <th></th> <th>Last Sample</th> </tr> </thead> <tbody> <tr> <td></td> <td>7:00</td> <td></td> <td>17J796-7051</td> <td>CIVUS</td> <td>0.13</td> <td>BR</td> <td></td> <td>3.5 4.5</td> <td>1827855-4</td> <td>8240-0182</td> <td></td> <td></td> <td></td> <td>4,200</td> <td>100</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>0724-11</td> <td>c24022204367-15</td> <td></td> <td></td> <td></td> <td></td> <td>24151</td> <td>24.04.18(14)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>4.3 Produce 2 good length and Hatsumono checking.</p> <p>A. Feed wire. Press arrow forward.</p> <p>B. Press Process start</p> <p>C. Press Production mode to produce 1piece and immediately press Stop. Measure wire length refer to cutting ledger. Measure wire crimp height per part number and check shape/angle 1 and 2.</p> <p>D. Record in Daily Report the actual length in 1st piece column. Record data for wire crimp height per part number and confirmation of shape/angle 1 and 2.</p> <p>E. Repeat the process to produce the 2nd piece and check wire length. Fill out ID tag information requirements.</p> <p>F. Press andon to Call Leader's attention for Hatsumono/2nd piece checking. Leader will check and record the Hatsumono in Daily Report and may start the operation. Put ID tag in box holder. Enter Process Name Machine No. and Operator Name save the Daily report. Activity C end time.</p>   <p>Identification tag</p>	Leader Signature	Start Time	Finish Time	Product Name	Type	Diameter	Color	Wire Length	Strip Length	Terminal ①	Terminal ②	Wire Crimp Height (PH)	Change	Confirm shape / angle	Quantity	Quantity per bundle	Defect Qty	Error	Leader Signature	First Piece			Production Lot No.	Wire Lot No.	1st Piece	2nd Piece	Last Piece	① ②	Terminal Lot	Terminal Lot No.	① ②	applier	① ②	Quantity	per bundle			Last Sample		7:00		17J796-7051	CIVUS	0.13	BR		3.5 4.5	1827855-4	8240-0182				4,200	100							0724-11	c24022204367-15					24151	24.04.18(14)									<p>Note: Check both crimp shape both sample.</p> <p>WI-PRO-CNC-010 WI-PRO-CNC-005</p> <p>F-PRO-CNC-008 F-PRO-CNC-002C&amp;D WI-PRO-CNC-007 WI-PRO-CNC-005 WI-PRO-CNC-009</p> <p>Note: Check graph appearance.</p> <p>WI-PRO-CNC-038</p> <p>WI-PRO-CNC-013 WI-PRO-CNC-011 F-PRO-CNC-003 F-PRO-CNC-010A</p> <p>Note: If machine produce more than 1piece check/confirm all wire produce. Attach first piece tag for checking of leader.</p> <p>Operation may start even first piece is for verification of leader or on going check of leader.</p>
Leader Signature	Start Time	Finish Time	Product Name	Type	Diameter	Color	Wire Length	Strip Length	Terminal ①	Terminal ②	Wire Crimp Height (PH)	Change	Confirm shape / angle	Quantity	Quantity per bundle	Defect Qty	Error	Leader Signature																																																												
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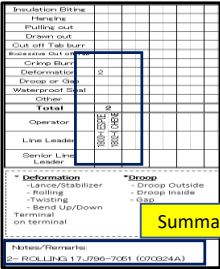
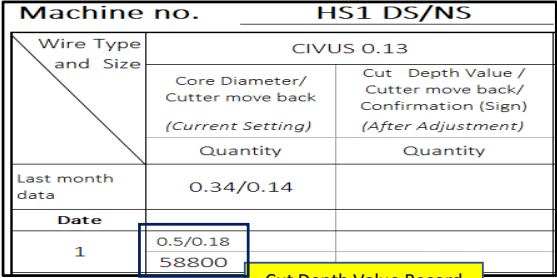
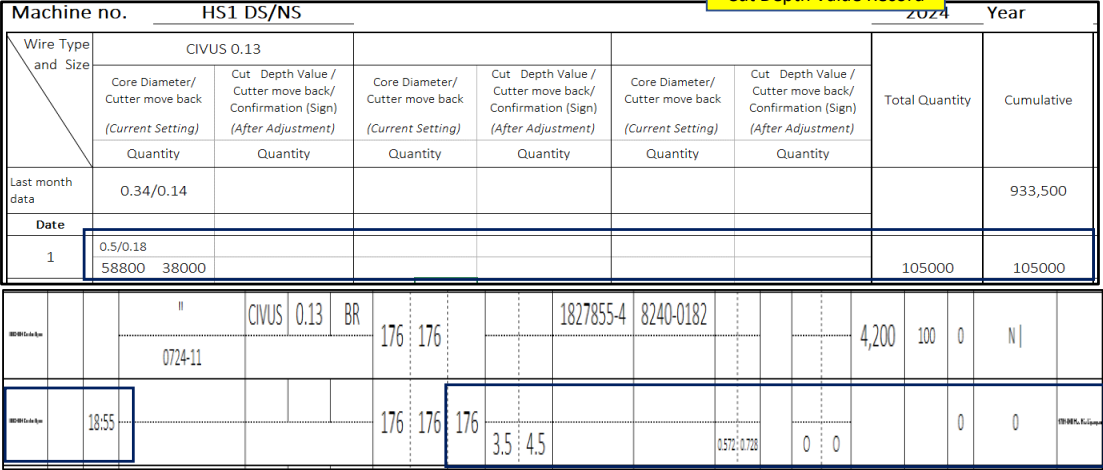
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DCC Stamp



	Process Name/ Title:		Document No:		WI-PRO-CNC-076	
	Wire Cutting and Crimping / Highspeed Machine Process Flow				Effective Date:	
	WORK INSTRUCTION				August 7, 2024	
	Product Code/Name:		Customer Code:		Rev. No.:	0
All		All		Page No.:	5 of 5	

No.	Work Procedure/ Illustration	Remarks
	<p>6. End of the Shift.</p> <p>6.1 Enter start time for end of shift data entry in Set up and Downtime Monitoring.</p> <p>6.2 Fill out data in Developsheet for crimp data, Summary of Defect, Cut depth value record and Daily report</p> <p>A. Get 2 samples for data gathering in developsheets for crimp data. Repeat previous steps to produce good sample.</p> <p>B. Enter quantity of defect item per category and fill out remarks for the defect details. Total defect will appear and enter name. Record total output per wire type&amp;size in Cut Depth Value record and total.</p> <p>C. Measure last piece wire length, crimp height and insulation height and record. Input strip length, confirm shape/angle, defect, error and record then call leader for Owarimono checking. Enter end time for end of shift data entry and Finish time in Daily report.</p> <p>D. Conduct 5's.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Summary Of Defect</p> </div> <div style="text-align: center;">  <p>Cut Depth Value Record</p> </div> </div> <div style="margin-top: 10px;">  </div>	<p>F-PRO-CNC-004</p> <p>WI-PRO-CNC-005</p> <p>WI-PRO-CNC-009</p> <p>F-PRO-CNC-014A</p> <p>F-PRO-CNC-007</p> <p>WI-PRO-CNC-013</p>