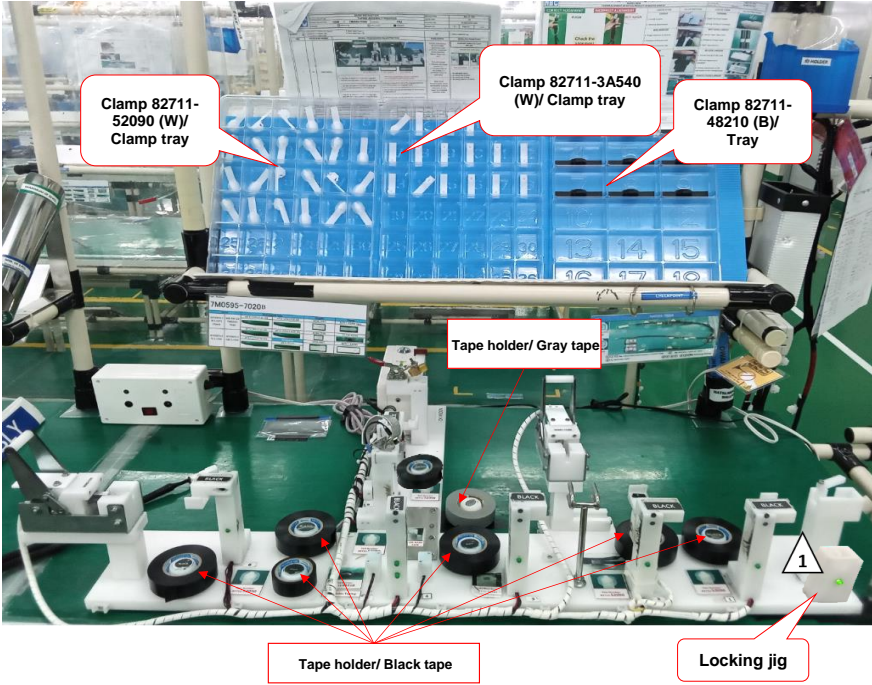



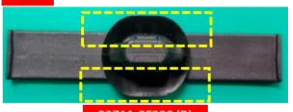
	<b>WORK INSTRUCTION</b> <b>CLAMP ASSEMBLY PROCESS</b>						Effectivity Date: <b>July 10, 2024</b>								
	Process Name/Title:						Validity Date:								
	Model code/Part number: <b>100B / 7M0595-7021</b>			Customer: <b>TRJ</b>		Car Model: <b>LEXUS UX (TOYOTA)</b>		Document No.: <b>WI-ENG-PDE-698</b>							
	Purpose: <input type="checkbox"/> PROTOTYPE <input type="checkbox"/> PRE-LAUNCH <input checked="" type="checkbox"/> MASSPRO						Revision No.:								
<b>PARTS:</b>		1. Assy parts; Clamp 82711-52090 (W) [5pcs]; Clamp 82711-3A540 (W); Clamp 82711-48210 (B); Black tape [7pcs]; Gray tape						JIG:		1. Clamp assembly jig 2. Locking jig					
<b>NO.</b>		<b>PROCESS NAME</b>		<b>1 WORK PROCEDURE/ ILLUSTRATION</b>				<b>TOOLS/PPE</b>		<b>QUALITY POINTERS</b>					
1		Clamp Assy Table Lay-out		<div style="text-align: center;"> <b>TABLE LAY-OUT</b>  </div>				<div style="border: 1px solid red; padding: 5px;"> <b>Safety Instruction</b>          Be sure to wear prescribed personal protective equipment during operation (gloves, finger cots, etc.)       </div> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <b>Housekeeping</b>          1. Maintain and always practice 5's.          2. Personal things on the workplace is prohibited. Keep it in your locker.       </div> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <b>Alert level</b>          For any trouble, inform the Assembly Assistant Supervisor or Line Leader for immediate corrective action.       </div>		<div style="text-align: center;"> <b>CLAMP ILLUSTRATION</b> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <b>GOOD</b>                82711-52090 (W)           </div> <div style="text-align: center;"> <b>NG</b>                82711-12A80 (W)           </div> </div> <div style="text-align: center; margin-top: 10px;"> <b>CLAMP ILLUSTRATION</b> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <b>GOOD</b>                82711-48210 (B)           </div> <div style="text-align: center;"> <b>NG</b>                82711-3F290 (B)           </div> </div>					
Revision History								Prepared by		Reviewed by		Approved by		Noted by	
07/10/24		1		Integrate connector lock process of connector 6188-0407 to Clamp assembly jig as improvement. Improved Table lay-out, Measurement and Visual inspection/Quality checkpoints.				D.Castillo		C. Villanueva		A. Arañes		n/a	
07/21/23		0		Initial issue. Changed Process Name/Title from <b>TAPING ASSEMBLY PROCESS</b> to <b>CLAMP ASSEMBLY PROCESS</b> ; Changed <b>WI-ENG-PDE-430D</b> to <b>WI-ENG-PDE-698</b> due to separation of process. Updated template. Inclusion of <b>CAR NAME- LEXUS (TOYOTA) UX</b> .				M. Ariola		J. Loterte		C. Villanueva		A. Arañes	
Eff. Date		Rev. No		Details of Change				Revised		Reviewed		Approved		Noted	
								Est. Date:		July 21, 2023					

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# WORK INSTRUCTION

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## CLAMP ASSEMBLY PROCESS

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PARTS:		1. Clamp 82711-52090 (W) [5pcs.] 2. Clamp 82711-3A540 (W) 3. Clamp 82711-48210 (B) 4. Black tape [7pcs.] 5. Gray tape [1pc]	JIG:	1. Clamp Assembly Jig	
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
2	Clamp Assy	Clamp Setting			
		<div></div> <div><div><div><div><div>1. Get 2pcs. of clamp <b>82711-52090 (W)</b> using right hand then set to jig clamp <b>1 and 2</b> using both hands.</div><div>2. Get 3pcs. of clamp <b>82711-52090 (W)</b> using right hand then set to jig location <b>6, 7 &amp; 8</b> using both hands.</div><div>3. Get 1pc. of clamp <b>82711-3A540 (W)</b> using right hand then set to clamp location <b>3</b> using both hands.</div></div><div><div>4. Get 1pc of clamp <b>82711-48210 (B)</b> using right hand then set to clamp location <b>4-5</b> using both hands.</div><div>5. Get the Black tape and start pre-taping on clamp location <b>1-6</b> and location <b>8</b>.</div><div>6. Get the <b>Gray tape</b> and start pre-taping on clamp location <b>7</b>.</div></div></div><div><div>STANDARD TAPING FOR CLAMP ONE SIDE</div><div>One wind for under tape</div><div><div><div>One side taping</div></div><div><div>Two sides taping</div></div></div></div></div><div><div>CLAMP ILLUSTRATION</div><div><div>GOOD</div><div>82711-48210 (B)</div></div><div><div>NG</div><div>82711-3F290 (B)</div></div><div><div>CLAMP ILLUSTRATION</div><div><div>GOOD</div><div>82711-52090 (W)</div></div><div><div>NG</div><div>82711-12A80 (W)</div></div></div></div><div><div>1. No damaged clamp</div><div>2. No wrong use of parts</div><div>3. No wrong use of tape</div><div>4. No wrong insertion of clamp</div><div><b>Important reminders/note/s:</b></div><div>1. Please use calibrated/verified measuring tape when getting the measurement.</div></div></div>			

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## WORK INSTRUCTION

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## PARTS:

1. Assy parts

JIG:

1. Clamp assembly jig

## NO.

## PROCESS NAME

## WORK PROCEDURE/ ILLUSTRATION

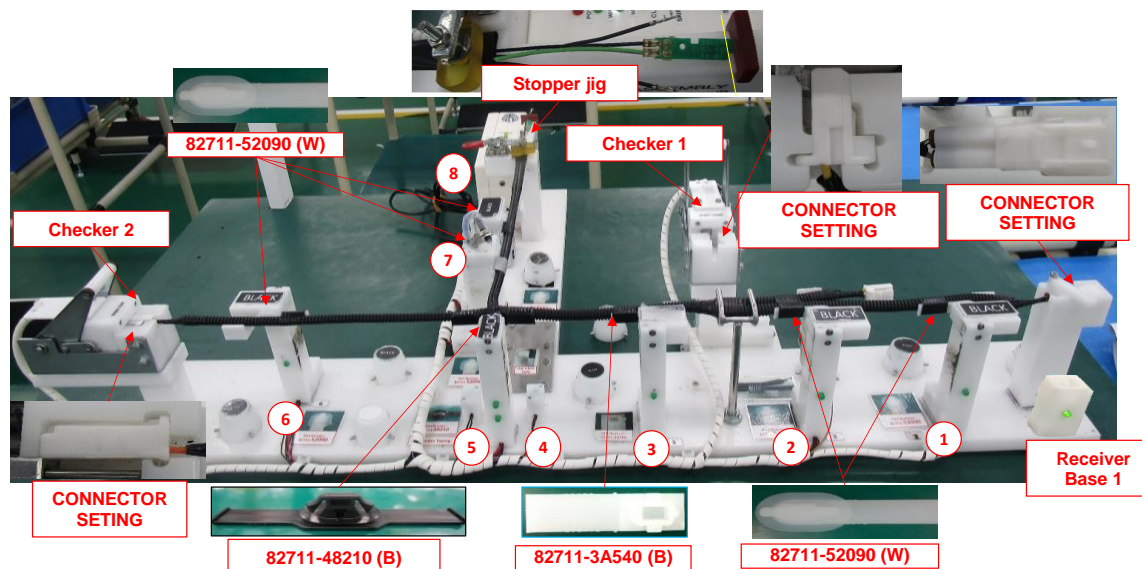
## TOOLS/PPE

## QUALITY POINTERS

4

Clamp  
Assy

Clamp Assembly



1. Get the assy parts and set into jig. (*See above picture for correct setting*). First, set the connector **6188-0407 (W)** to **Receiver base 1** and then lock. Second, set the connector **6098-3810 (W)** to **Checker 1** and then pull the checker fixture for continuity checking. Third, set the connector **6098-2220 (W)** to **Checker 2** and then pull the checker fixture for continuity checking. Last, set the hotmelted **G-B/W** wires together within the stopper and then press by toggle clamp. Continue if the sequence light on location **1** was **ON**.

2. Check if all **LED light** for **POWER ON, WIRE1, WIRE2, CLAMP ON** was **ON**. If encountered abnormality, **STOP** and immediately **CALL** the attention of the leader and **WAIT** for further instruction and then continue the process.

1. No loose/tight clamp attached
2. No damage clamp
3. No missed tape
4. No missing parts
5. Make sure no clearance between PCB and stopper jig

**Important reminders/note/s:**

1. Please check all the clamp before start of assembly to avoid wrong use of parts.
2. Make sure no gap between the hotmelted wires and the stopper jig.
3. Make 2-3 windings for clamp taping



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PARTS:	1. Assy parts		JIG:	1. Clamp assembly jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
4	Clamp Assy Clamp Assembly (Continuation)	<div><p>3. Hold the tape on clamp location 1. Make <b>3 windings of tape</b> using both hands then cut the tape. Press the <b>SW button</b> after taping. Continue if the sequence light on location 2 was <b>ON</b>.</p><p>4. On clamp location 2, hold the black tape using right hand then tape the clamp with <b>COT 1</b>, make <b>2 windings</b>, do not cut the tape. Then, remove connector <b>6098-3810 (W)</b> from <b>Checker 1</b>. Combine with <b>COT 2</b>, then tape. Make <b>3 windings of tape</b> using both hands then cut the tape. Press the <b>SW button</b> after taping. Continue if the sequence light on location 3 was <b>ON</b>.</p><div><p>First, 2 winds</p><p>COT 2</p><p>COT 1</p><p>Second, 3 winds</p><p>After Taping</p></div></div>		<p><b>Important reminders/note/s:</b></p> <p>1. Please check all the clamp before start of assembly to avoid wrong use of parts.</p> <p>2. Make sure no gap between the holmelted wires and the stopper jig.</p> <p>3. Make 2-3 windings for clamp taping</p> <p>1. No loose/tight clamp attached</p> <p>2. No damage clamp</p> <p>3. No missed tape</p> <p>4. No missing parts</p> <p>5. Make sure no clearance between PCB and stopper jig</p>

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PARTS:	1. Assy parts		JIG:	1. Clamp Assembly Jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
4	Clamp Assy	Clamp Assembly (Continuation)	<div></div>	<p><b>Important reminders/note/s:</b></p> <p>1. Please check all the clamp before start of assembly to avoid wrong use of parts.</p> <p>2. Make sure no gap between the holmelted wires and the stopper jig.</p> <p>3. Make 2-3 windings for clamp taping</p> <p>1. No loose/tight clamp attached</p> <p>2. No damage clamp</p> <p>3. No missed tape</p> <p>4. No missing parts</p> <p>5. Make sure no clearance between PCB and stopper jig</p>

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PARTS:	1. Assy parts		JIG:	1. Clamp Assembly Jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
4	Clamp Assy Clamp Assembly (Continuation)	<div></div> <div><p>9. Hold the <b>Gray tape</b> using right hand and then start taping using both hands on clamp location <b>7</b>. Make <b>3 windings of tape</b> then cut the tape. <b>Color sensor</b> light will beep/buzzer if sensor detects <b>Gray tape</b>. Press the <b>SW button</b> after taping. Continue if the sequence light on location <b>8</b> was <b>ON</b>. <b>Note: Use GRAY TAPE only.</b></p><p>10. Hold the tape on clamp location <b>8</b>. Make <b>3 windings of tape</b> using both hands then cut the tape. Press the <b>SW button</b> after taping. <b>Go</b> sound will be heard.</p><p>11. Conduct <b>POINT CHECKING</b> of all clamps &amp; all taping before removing from jig.</p></div> <div></div>		<div><p>1. No loose/tight clamp attached</p><p>2. No damage clamp</p><p>3. No missed tape</p><p>4. No missing parts</p><p>5. Make sure no clearance between PCB and stopper jig</p></div> <div><p><b>Important reminders/note/s:</b></p><p>1. Please check all the clamp before start of assembly to avoid wrong use of parts.</p><p>2. Make sure no gap between the holmelted wires and the stopper jig.</p><p>3. Make 2-3 windings for clamp taping</p></div>

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PARTS:		1. Assy parts		JIG:	n/a
NO.	PROCESS NAME	1 WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
5	Clamp Assy	Measurement		<div>MEASURING TAPE</div> 	<p><b>Important reminders and note/s:</b></p> <p>1. Please use calibrated/verified measuring tape when getting the measurement.</p> <p>2. For Hatsumono, Nakamono and Owarimono.</p> <p><b>Document reference/s:</b></p> <p>1. Refer to <b>WI-PRO-ASY-056</b> for Sub-assembly Hatsumono Nakamono Owarimono Inspection</p> <p>1. No wrong dimension</p>

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PARTS:

1. Assy parts

JIG:

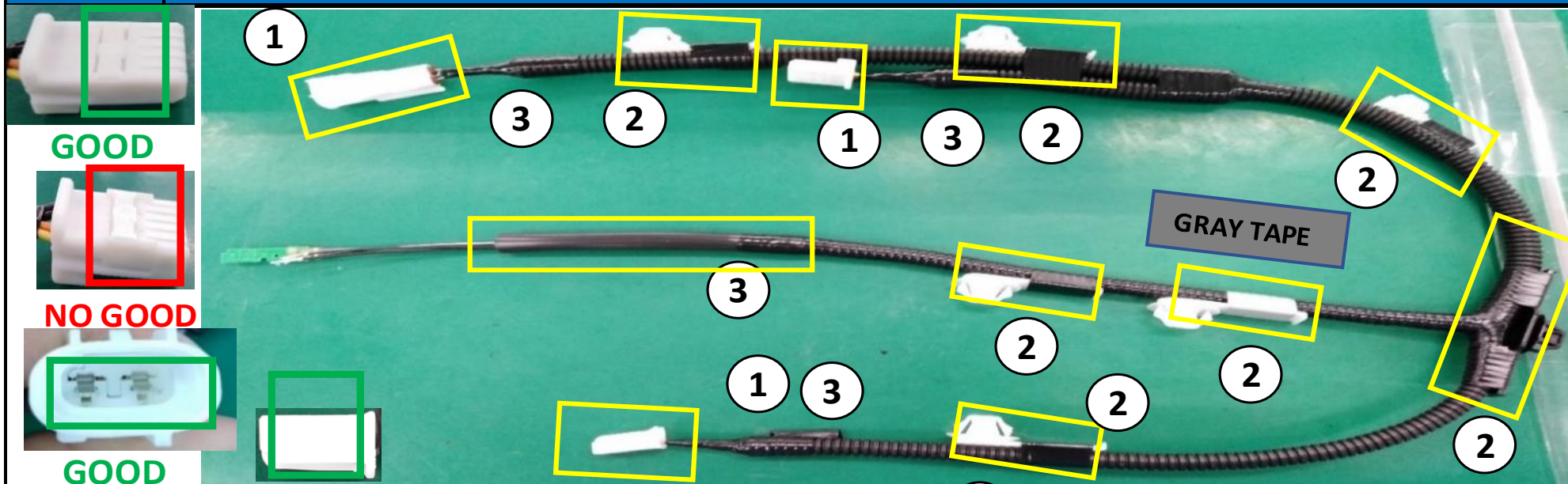
n/a

1

### VISUAL INSPECTION/ QUALITY CHECKPOINTS

Clamp  
Assy

# 7M0595-7021



GOOD



NO GOOD



GOOD



GOOD



NO GOOD



NO GOOD

1 No **WRONG INSERT**  
No **UNLOCKED/HALFLOCKED**  
No **TBO**

2 No **Missing Clamp**  
3 No **Missing Tape**  
No **WRONG USED OF TAPE**

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