



## WORK INSTRUCTION

Process Name/Title:

## CLAMP ASSEMBLY PROCESS

Effectivity Date:

June 14, 2024

Validity Date:

n/a

Model code/Part number:

310D / 7N0199-7020A

Customer: TRJ

Car Model: TOYOTA-RAV4

Document No.:

WI-ENG-PDE-914

Purpose:

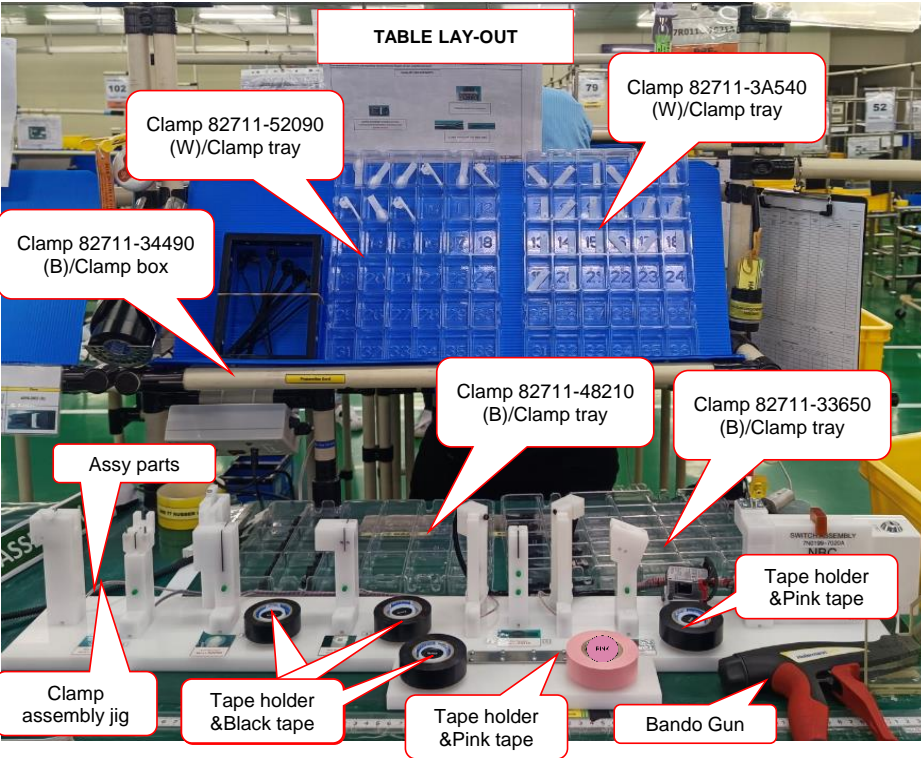

☐ PROTOTYPE☐ PRE-LAUNCH☒ MASSPRO

Revision No.:

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<b>PARTS:</b>	1. Clamp 82711-52090 (W) 2. Clamp 82711-48210 (B) 3. Clamp 82711-34490 (B)	4. Clamp 82711-3A540 (W) 5. Clamp 82711-33650 (B) 6. Black tape [4 pcs.]	7. Pink tape 8. Assy part	JIG:	1. Clamp Assembly Jig			
<b>NO.</b>	<b>PROCESS NAME</b>	<b>WORK PROCEDURE/ ILLUSTRATION</b>			<b>TOOLS/PPE</b>	<b>QUALITY POINTERS</b>		
1	Clamp Assy Table Lay-out				<b>Safety Instruction</b> Be sure to wear prescribed personal protective equipment during operation (gloves, finger cots, etc.)  <b>Housekeeping</b> 1. Maintain and always practice 5's. 2. Personal things on the workplace is prohibited. Keep it in your locker.  <b>Alert level</b> For any trouble, inform the Assembly Assistant Supervisor or Line Leader for immediate corrective action.	1. No missing parts/tools. 2. No missing parts/tools   		
Revision History					Prepared by	Reviewed by	Approved by	Noted by
06/14/24	1	Change the purpose from Pre-launch to Masspro. Additional table lay-out. Update the Visual inspections/Quality Checkpoints						
06/06/24	0	Initial issue.			M. Ariola	C. Villanueva	A. Arañes	n/a
Eff. Date	Rev. No	Details of Change			Revised	Reviewed	Approved	Noted
					Est. Date:	June 6, 2024		

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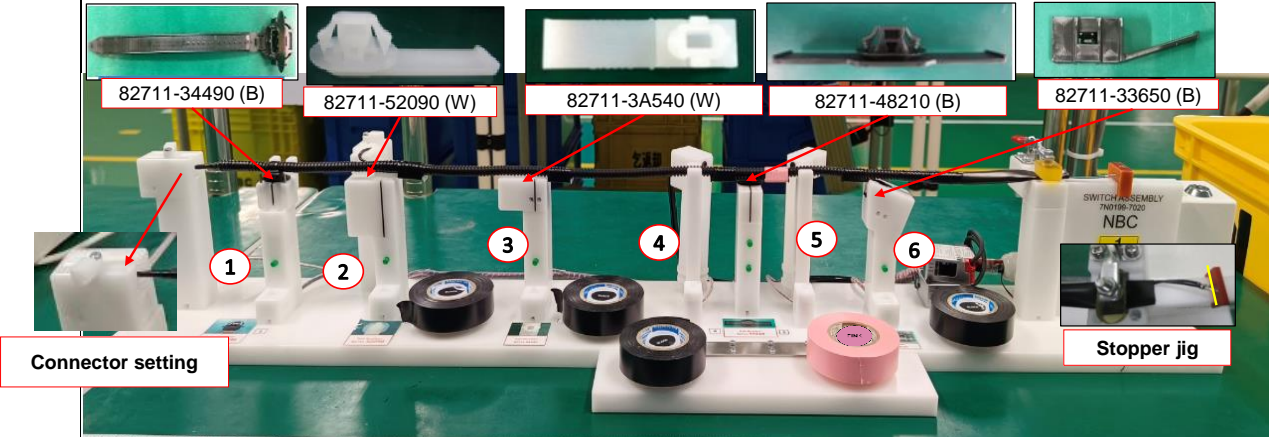


☒ MASSPRO

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PARTS:		1. Clamp 82711-52090 (W) 2. Clamp 82711-48210 (B) 3. Clamp 82711-34490 (B)	4. Clamp 82711-3A540 (W) 5. Clamp 82711-33650 (B) 6. Black tape [4 pcs.]	7. Pink tape 8. Assy part	JIG:	1. Clamp Assembly Jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION			TOOLS/PPE	QUALITY POINTERS
3	Clamp Assy	<div><p>1. Put the assy into jig. <i>(See above picture for the correct setting)</i>. First, set the connector 6098-3802 (W) to Receiver base 1. Second, set the B-B wires together within stopper then press by toggle clamp.</p><p>2. Initially tighten the band clamp on location 1 using both hands. Get the bando gun using right hand then cut the band clamp using both hands. Continue the process if the sequence light on location 2 was ON.</p></div> <div><p><b>BANDO GUN ALIGNMENT</b></p><p><b>PERPENDICULARITY</b></p><p>NG OK NG</p></div> <div><p><b>BANDO GUN ILLUSTRATION</b></p><p>GOOD NG</p><p>FLAT NOSEPIECE EXTENDED NOSEPIECE</p><p>Fixed setting of band clamp cutter: 1~ 2</p></div> <div><p><b>PROPER CUTTING POSITION OF BANDO GUN</b></p><p>GOOD NG</p></div> <div><p><b>IMPROPER CUTTING POSITION OF BANDO GUN</b></p><p>NG</p></div>				<div><p><b>Important reminders/Note/s:</b></p><p>1. Must be no gap between terminal and stopper jig.</p><p>2. Using steel rule, check if the band cut measurement is within the required dimension and should not exceed the allowable range (0~2mm).</p><p>3. Setting of band clamp cutter depends on the size of the COT/SV tube (Vinyl) ø5- 1~2, ø7- 3~4</p></div> <div></div>

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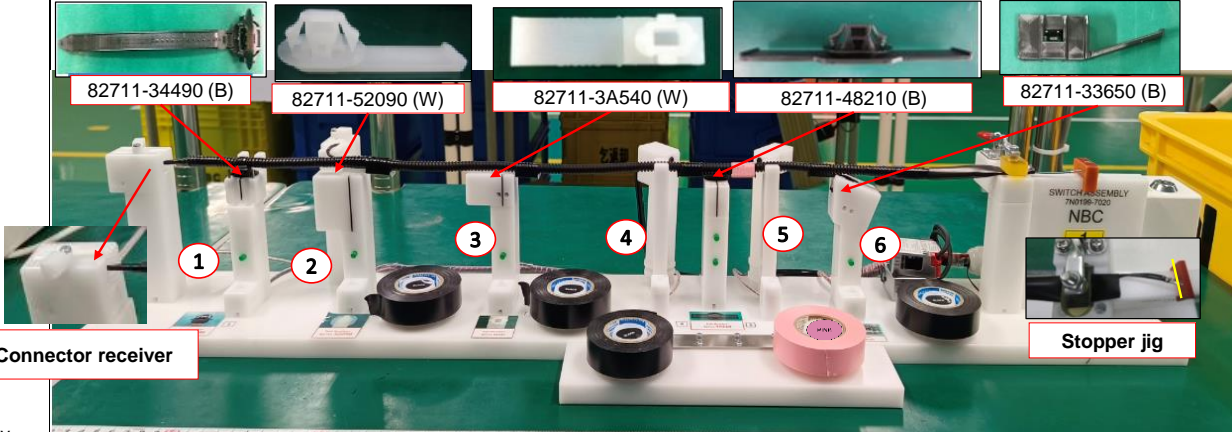



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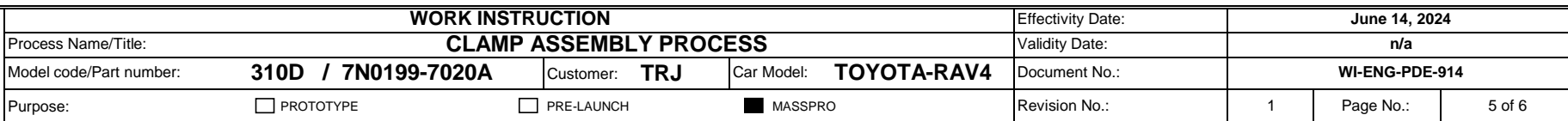
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PARTS:		1. Assy parts		JIG:	1. Clamp assembly jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
3	Clamp Assy	Clamp assembly (Continuation)			
		<div></div> <div><div><div><div>3. On clamp location 2, hold the tape then make 3 windings of tape then cut the tape using both hands. Press the SW button after taping. Continue the process if the sequence light on location 3 was ON.</div><div>4. On clamp location 3, hold the tape then make 3 windings of tape then cut the tape using both hands. Press the SW button after taping. Continue the process if the sequence light on location 4 was ON.</div><div>5. On clamp location 4, hold the tape then make 3 windings of tape then cut the tape using both hands. Press the SW button after taping. Continue the process if the sequence light on location 5 was ON.</div></div><div><div>6. On clamp location 5, hold the tape then make 3 windings of tape then cut the tape using both hands. Press the SW button after taping. Continue the process if the sequence light on location 6 was ON.</div><div>7. On clamp location 6, hold the tape then make 3 windings of tape then cut the tape using both hands. Press the SW button after taping. GO sound will be heard.</div><div>8. After taping, CONDUCT POINT CHECKING before removing the harness from jig.</div></div></div></div> <div><div><div>1. No flip-out tape</div><div>2. No peel-off tape</div><div>3. No loose tape</div><div>4. No missing tape</div><div>5. No wrong dimension</div><div>6. No tight/loose clamp attachment</div></div><div></div><div><div>Important reminders/Note/s:</div><div><div>1. Must be no gap between terminal and stopper jig.</div><div>2. Make 2-3 windings for clamp taping</div></div><div><div>CLAMP ILLUSTRATION</div><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>			

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**PARTS:**

1. Assy parts

JIG:

n/a

**VISUAL INSPECTION/ QUALITY CHECKPOINTS****CLAMP  
ASSY****7N0199-7020A****1 Check the alignment of clamp****2 No Missing Tape (Black tape)**

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