



WORK INSTRUCTION

Process Name/Title:

CLAMP ASSEMBLY PROCESS

Effectivity Date:

November 13, 2024

Model code/Part number:

178D / 7N0129-7021C

Customer: TRJ

Car Model: TOYOTA COROLLA

Validity Date:

n/a

Purpose:

☐ PROTOTYPE☐ PRE-LAUNCH☒ MASSPRO

Document No.:

WI-ENG-PDE-1163

Revision No.:

1

Page No.:

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PARTS: 1. Assy parts; Clamp 82711-52090 (W); Clamp 82711-3A540 (W); Clamp 82711-34490 (B); Black tape [4pcs.]; White tape [1pc.]

JIG:

1. Clamp assembly jig

NO.

PROCESS NAME

WORK PROCEDURE/ ILLUSTRATION

TOOLS/PPE

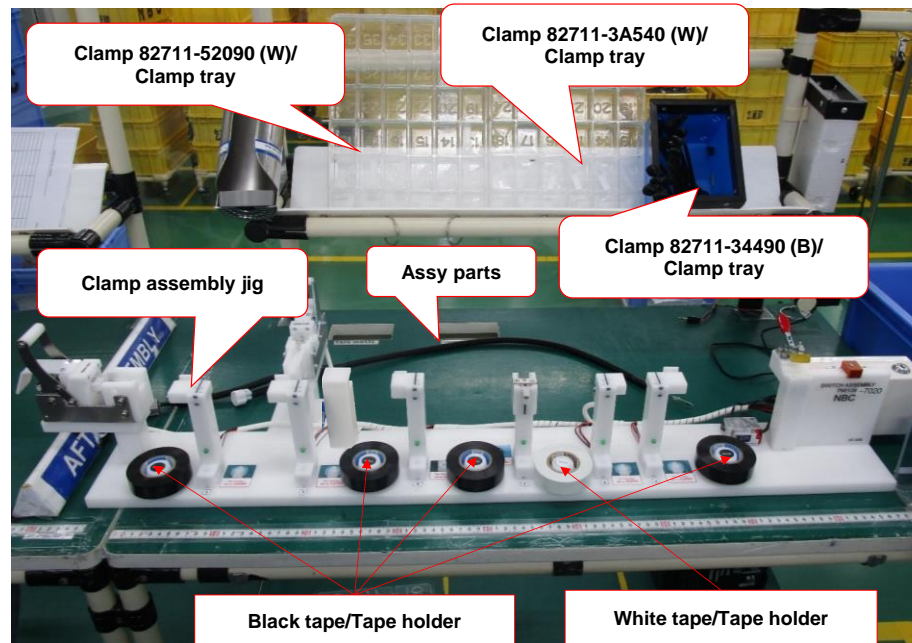
QUALITY POINTERS

1

Clamp
Assy

Table Lay-out

TABLE LAY-OUT

**Safety Instruction**

Be sure to wear prescribed personal protective equipment during operation (gloves, finger cots, etc.)

Housekeeping

1. Maintain and always practice 5's.
2. Personal things on the workplace is prohibited. Keep it in your locker.

Alert level

For any trouble, inform the Assembly Assistant Supervisor or Line Leader for immediate corrective action.

BANDO GUN**Document reference/s:**

1. Refer to **WI-ENG-PDE-463A-B** for Taping assembly process

1. No missing parts/tools
2. No excess parts/tools

Revision History

Eff. Date	Rev. No	Details of Change	Revised	Reviewed	Approved	Noted	Prepared by	Reviewed by	Approved by	Noted by
11/13/24	1	Change pre-launch to mass pro.	A. Hernandez	C. Villanueva	A. Arañes	N/A	A. Hernandez	C. Villanueva	A. Arañes	n/a
11/12/24	0	Initial issue.	A. Hernandez	C. Villanueva	A. Arañes	N/A	A. Hernandez	C. Villanueva	A. Arañes	n/a

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PARTS:

1. Clamp 82711-52090 (W) [4pcs.]
2. Clamp 82711-3A540 (W)
3. Clamp 82711-34490 (B)

4. Black tape [4pcs.]
5. White tape

JIG:

1. Clamp assembly jig

NO.

PROCESS NAME

WORK PROCEDURE/ ILLUSTRATION

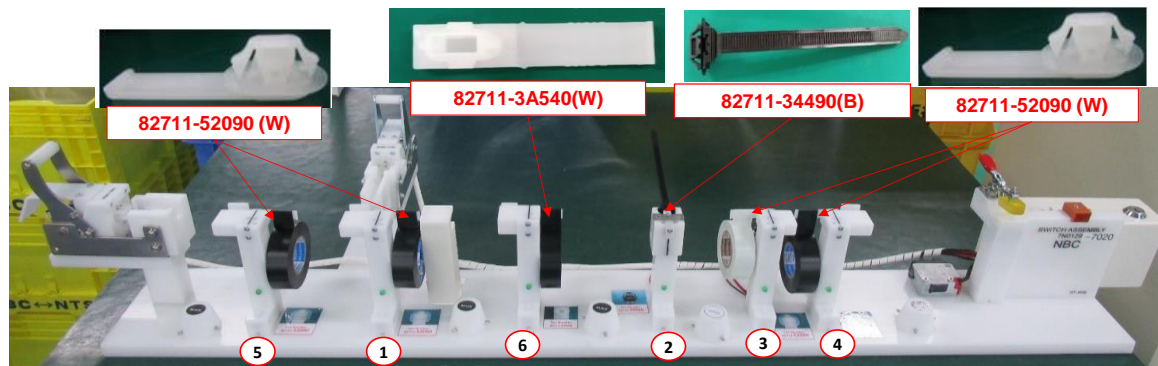
TOOLS/PPE

QUALITY POINTERS

2

Clamp
Assy

Clamp setting



1. Get 2 pcs. of clamp **82711-52090 (W)** using both hands then insert to clamp location **5 and 1** using both hands.

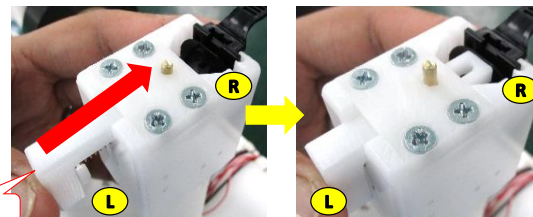
5. Get the **White tape** then initially attach to clamp location **3** using both hands.

2. Get 2 pcs. of clamp **82711-52090 (W)** using both hands then insert to clamp location **3 and 4** using both hands.

6. Get the **Black tape** then initially attach to clamp location **5, 1, 6 and 4** using both hands.

3. Get 1 pc. of clamp **82711-3A540 (W)** using right hand then insert to clamp location **6** using both hands.

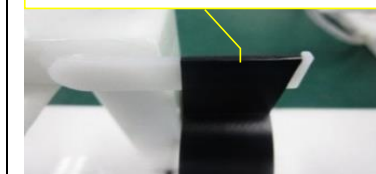
4. Get 1 pc. of clamp **82711-34490 (B)** using right hand then insert to clamp location **2** using both hands.



1. No wrong use of parts
2. No wrong use of tape
3. No damaged clamp
4. No wrong clamp position

STANDARD TAPING FOR CLAMP

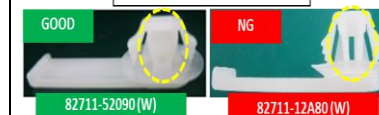
One wind for under tape



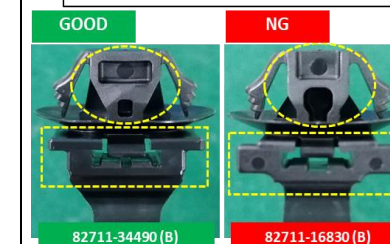
Important reminders/Note/s:

1. Please check the Clamp first before start of assembly to avoid wrong use of clamp.

CLAMP ILLUSTRATION



BAND CLAMP ILLUSTRATION



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PARTS:		1. Assy parts 2. Black tape 3. White tape		JIG:	1. Clamp assembly jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
3	Clamp Assy	<div></div> <p>1. Get the assy parts and set into jig. <i>(See above picture for correct setting of harness).</i> First, set the connector 6188-0066 (GR) to Checker 1 then pull the checker fixture for continuity checking. Second, set the connector 6189-0451 (W) to Checker 2 then pull the checker fixture for continuity checking. Continue to set the harness in jig. Last, set the PCB within the stopper then press by Toggle clamp. Continue if the sequence light of location 1 was ON.</p> <div></div> <p>NOTE: On clamp location 2, if clamp 82711-34490 (B) is locked and the toggle clamp is set, the process will proceed. If clamp 82711-34490 (B) is unlock and the toggle clamp is set, the process will not proceed and NG buzz will be heard.</p>			<div><p>1. No wrong use of parts 2. No wrong use of tape 3. No damaged clamp 4. No wrong clamp position</p><p>Important reminders/Note/s: 1. <i>Make sure no gap between stopper jig and PCB.</i></p><div><p>CLAMP ILLUSTRATION</p></div><div><p>BAND CLAMP ILLUSTRATION</p></div></div>

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PARTS:

1. Assy parts
2. Black tape
3. White tape

JIG:

1. Clamp assembly jig

NO.

PROCESS NAME

WORK PROCEDURE/ ILLUSTRATION

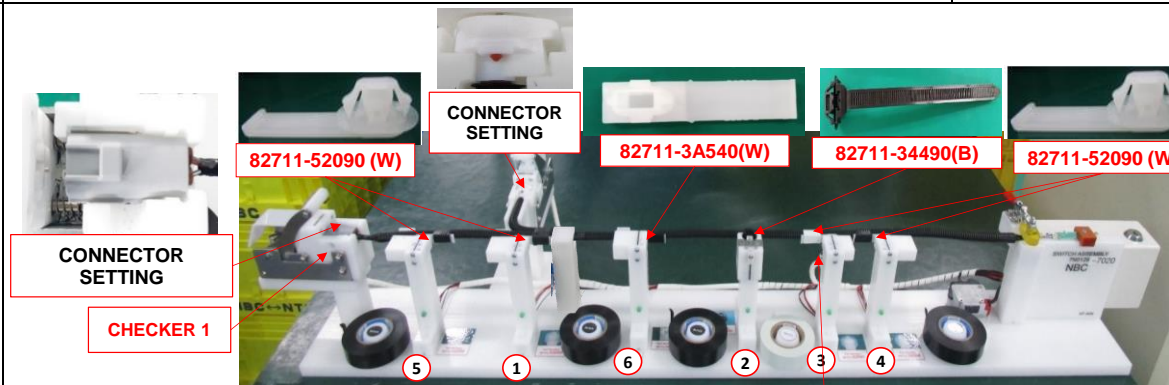
TOOLS/PPE

QUALITY POINTERS

3

Clamp Assy

Clamp assembly
(Continuation)



6. Hold the tape on clamp location **3**, make **3 windings** of tape then cut the tape using both hands. **Color sensor** light will beep/buzz if sensor detects **White tape**. Press the **SW button** after taping. Continue the process if sequence light on clamp location **4** was **ON**.

7. Hold the tape on clamp location **4**, make **3 windings** of tape then cut the tape using both hands. Press the **SW button** after taping. Continue the process if sequence light on clamp location **5** was **ON**.

8. Hold the tape on clamp location **5**, make **3 windings** of tape then cut the tape using both hands. Press the **SW button** after taping. Continue the process if sequence light on clamp location **6** was **ON**.

9. Hold the tape on clamp location **6**, make **3 windings** of tape then cut the tape using both hands. Press the **SW button** after taping. **Go** sound will be heard.

10. After taping, **CONDUCT POINT CHECKING** before removing the harness from jig.

1. No wrong use of parts
2. No wrong use of tape
3. No damaged clamp
4. No wrong clamp position



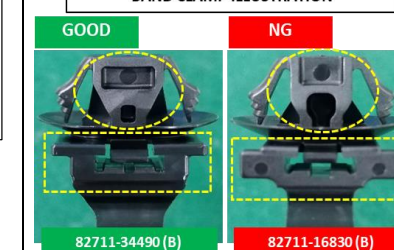
Important reminders/Note/s:

1. Make sure no gap between stopper jig and PCB.
2. Make 2-3 windings for clamp taping.

CLAMP ILLUSTRATION



BAND CLAMP ILLUSTRATION



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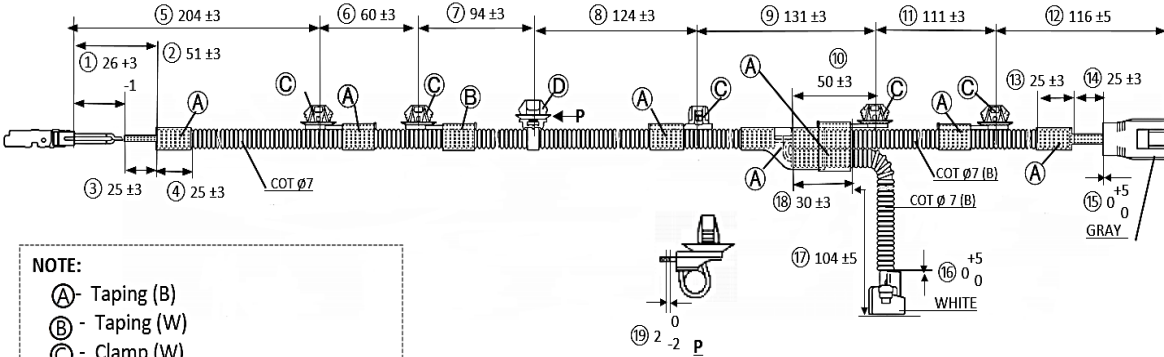
☒ MASSPRO

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PARTS:		1. Assy parts		JIG:	N/A
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
4	Clamp Assy	Measurement	<div><p>MEASURING TAPE</p></div>  <div><p>NOTE:</p><ul style="list-style-type: none">A - Taping (B)B - Taping (W)C - Clamp (W)D - Clamp (B)1 - Dimension tolerance is internal control only</div>	<p>Important reminders/Note/s:</p> <ol style="list-style-type: none">FOR HATSUMONO AND OWARIMONO.Please use calibrated/verified measuring tape when getting the measurement. <p>Document reference/s:</p> <ol style="list-style-type: none">Refer to WI-PRO-ASY-056 for Sub-assembly Hatsumono Nakamono Owarimono Inspection.	1. No wrong dimension

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PARTS:

1. Assy parts

JIG:

N/A

VISUAL INSPECTION/ QUALITY CHECKPOINTS**CLAMP ASSY****7N0129-7021C****1** No Wrong facing of clamp**2 3 4** No Missing Tape
(Black tape)

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