



WORK INSTRUCTION  
CLAMP ASSEMBLY PROCESS

Process Name/Title:

Model code/Part number: 780B / 7R0103-7023B

Customer: TRMX

Car Model: TOYOTA-TUNDRA

Purpose:

☐ PROTOTYPE

☐ PRE-LAUNCH

☒ MASSPRO

Effectivity Date:

October 1, 2024

Validity Date:

n/a

Document No.:

WI-ENG-PDE-1079

Revision No.:

1

Page No.:

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PARTS:

1. Assy parts; Clamp 82711-26380 (BR); Clamp 82711-16830 (B)

JIG:

1. Clamp assembly jig  
2. Label dispenser

NO.

PROCESS NAME

WORK PROCEDURE/ ILLUSTRATION

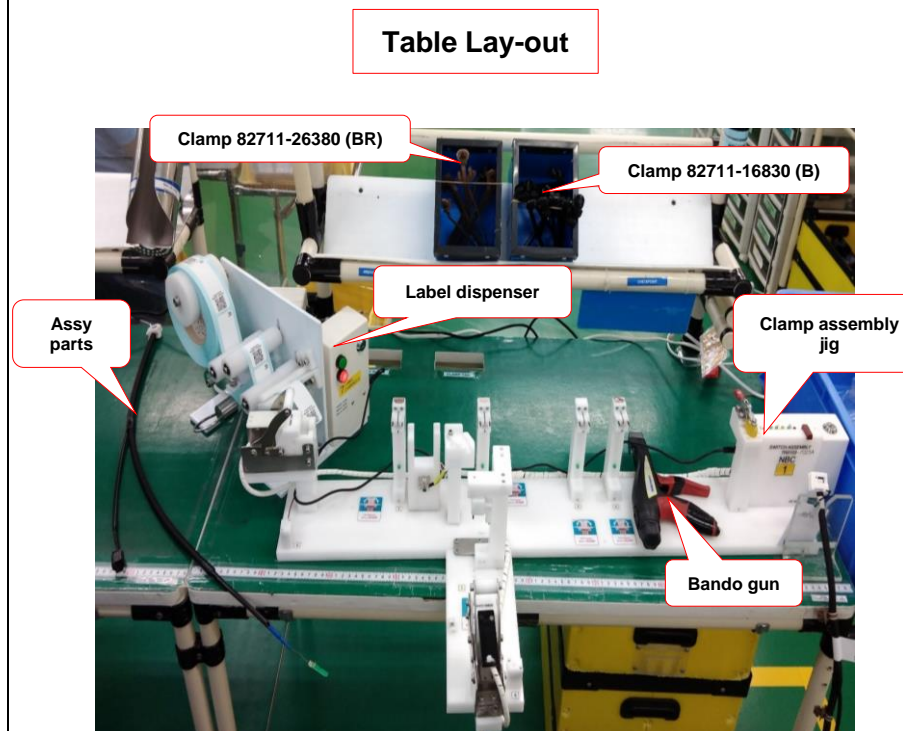
TOOLS/PPE

QUALITY POINTERS

1

Clamp Assy

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-542A-C** for Taping assembly process

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


Revision History

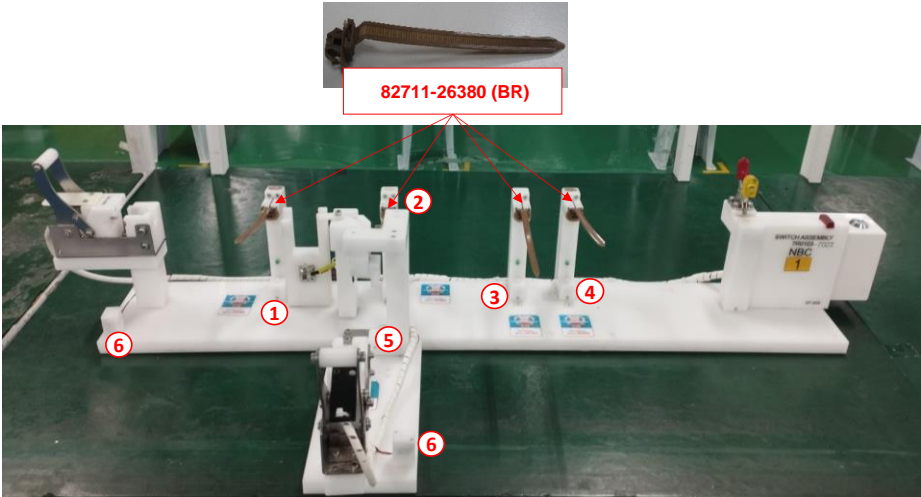
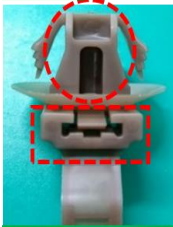

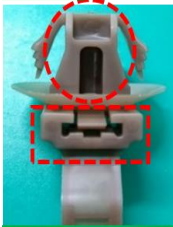

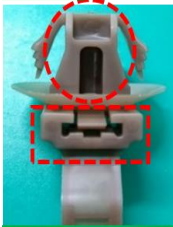

								Prepared by	Reviewed by	Approved by	Noted by
10/01/24	1	Change from Pre-launch to Masspro.	D.Castillo	C. Villanueva	A. Arañes	n/a					
09/24/24	0	Separate Clamp assy from Taping assembly proces.	D.Castillo	C. Villanueva	A. Arañes	N/A					
Eff. Date	Rev. No	Details of Change	Revised	Reviewed	Approved	Noted	Est. Date:	September 24, 2024			

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	Purpose: <input type="checkbox"/> PROTOTYPE <input type="checkbox"/> PRE-LAUNCH <input checked="" type="checkbox"/> MASSPRO			Revision No.:	1	Page No.:	2 of 8


PARTS:		1. Assy parts 2. Clamp 82711-26380 (BR) [4pcs.]		JIG:	1. Clamp assembly jig						
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS						
2	Clamp Assy	<div><div><p>1. Get 2pcs. of clamp 82711-26380 (BR) using right hand and set to clamp location 1 and 2 using both hands.</p><p>2. Get 2pcs. of clamp 82711-26380 (BR) using right hand and set to clamp location 3 and 4 using both hands.</p></div></div>		n/a	<div><p>1. No loose attachment of clamp 2. No damaged clamp 3. No missing parts</p><p><b>Important reminders/Note/s:</b></p><p>1. Please check the Clamp first before start of assembly to avoid wrong use of clamp.</p><div><p>BAND CLAMP ILLUSTRATION</p><table><tr><td>GOOD</td><td>NG</td></tr><tr><td></td><td></td></tr><tr><td>82711-26380 (BR)</td><td>82711-16820 (BR)</td></tr></table></div></div>	GOOD	NG			82711-26380 (BR)	82711-16820 (BR)
GOOD	NG										
											
82711-26380 (BR)	82711-16820 (BR)										

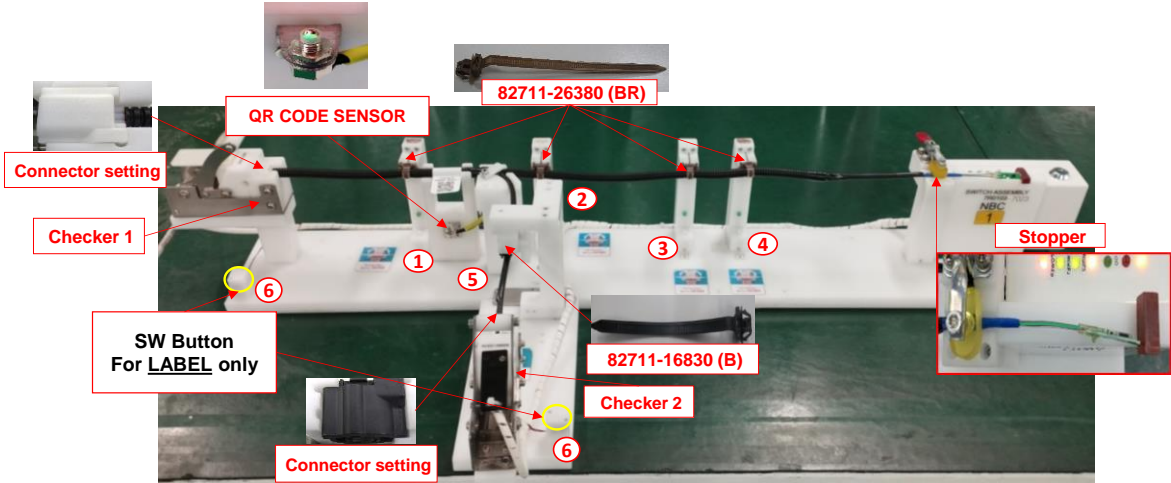
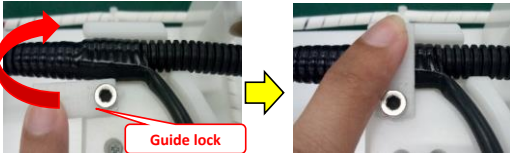

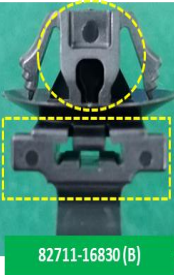

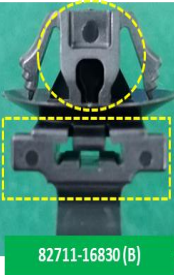

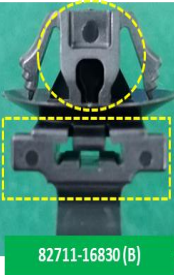

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	Purpose:		<input type="checkbox"/> PROTOTYPE	<input type="checkbox"/> PRE-LAUNCH	<input checked="" type="checkbox"/> MASSPRO	Revision No.:	1	Page No.:

<b>PARTS:</b>	1. Assy parts 2. Clamp 82711-16830 (B)		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>						
3	Clamp Assy	<div><p>1. Hold the assy parts and then set to jig. (<i>See above picture for correct setting</i>). First, set the connector <b>6189-1142 (W)</b> to <b>Checker 1</b> then pull the checker fixture for continuity checking. Continue to set the harness in jig. (<i>See below illustration for Y-Taping lock.</i>) Second, set the <b>PCB</b> to stopper jig and push down the toggle clamp. Last, set the connector <b>6189-1161 (B)</b> to <b>Checker 2</b> then push the checker fixture for continuity checking.</p><p>2. Using left index finger, push the guide lock to lock the Y-taping portion.</p><p>3. Get 1pc. of clamp <b>82711-16830 (B)</b> using right hand and set to clamp location <b>5</b> using both hands.</p></div>		<div><p><b>Important reminders/Note/s:</b></p><p>1. Make sure no gap between the <b>PCB</b> and <b>stopper jig</b>.</p><p>1. No loose attachment of clamp 2. No damaged clamp 3. No missing parts</p><div><b>BAND CLAMP ILLUSTRATION</b></div><table><tr><td><b>GOOD</b></td><td><b>NG</b></td></tr><tr><td></td><td></td></tr><tr><td>82711-16830 (B)</td><td>82711-34490 (B)</td></tr></table></div>	<b>GOOD</b>	<b>NG</b>			82711-16830 (B)	82711-34490 (B)
<b>GOOD</b>	<b>NG</b>									
										
82711-16830 (B)	82711-34490 (B)									

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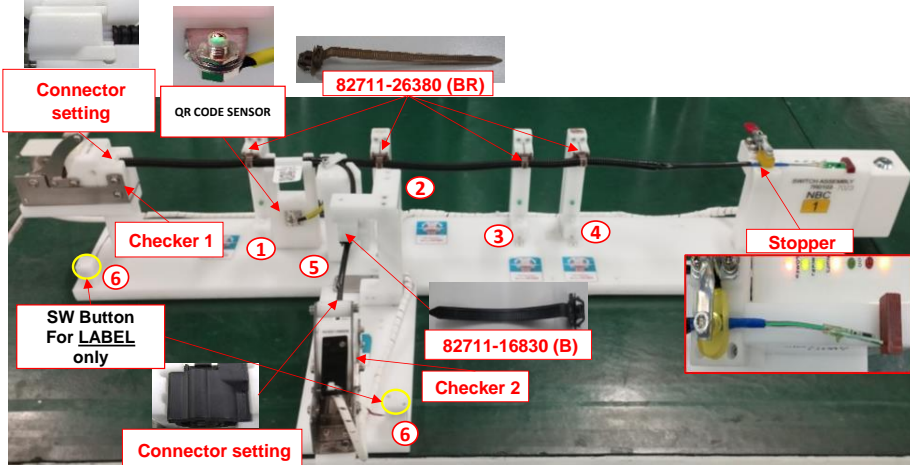



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PARTS:		1. Assy parts		JIG:	1. Clamp assembly jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
3	Clamp Assy	<div>Clamp Assembly (Continuation)</div> <div></div> <div><p>5. Initially tighten the band clamp on clamp location <b>1, 2, 3, 4, and 5</b> using both hands.</p><p>6. Get the Bando Gun using right hand then cut the band clamp on location <b>1</b> using both hands. Press the <b>SW button</b> after cutting of band clamp. Continue the process if clamp location <b>2</b> was <b>ON</b>.</p><p>7. Cut the band clamp on clamp location <b>2</b> using both hands. Press the <b>SW button</b> after cutting of band clamp. Continue the process if clamp location <b>3</b> was <b>ON</b>.</p><p>8. Cut the band clamp on clamp location <b>3</b> using both hands. Press the <b>SW button</b> after cutting of band clamp. Continue the process if clamp location <b>4</b> was <b>ON</b>.</p></div> <div></div> <div></div>		<div></div> <p><b>Important reminders/Note/s:</b></p> <p>1. Make sure no gap between the <b>PCB</b> and <b>stopper jig</b>.</p>	

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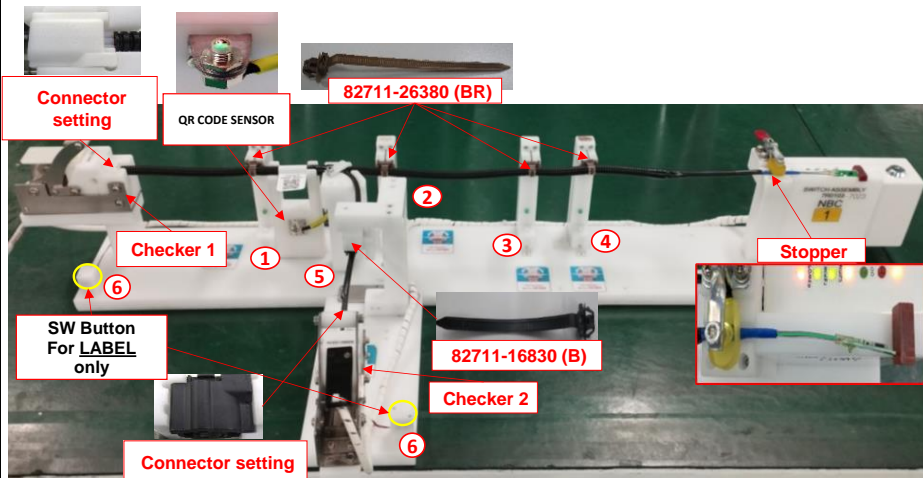
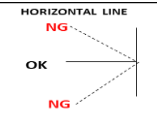





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PARTS:	1. Assy parts		JIG:	1. Clamp assembly jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
3	Clamp Assy	<div>Clamp Assembly (Continuation)</div> <div></div> <div><div>9. Cut the band clamp on clamp location <b>4</b> using both hands. Press the <b>SW button</b> after cutting of band clamp. Continue the process if clamp location <b>5</b> was <b>ON</b>.</div><div><div>Note: Setting of band clamp cutter depends on the size of the COT/Vinyl tube. For: ø5 - 1~2, ø7 - 3~4</div></div><div><div>10. Cut the band clamp on clamp location <b>5</b> using both hands. (See below illustration). Press the <b>SW button</b> after cutting of band clamp. Continue on label attachment (Refer to next page for label attachment procedure).</div><div><div>BAND CLAMP CUT POSITION FOR 82711-16830 (B)</div><div></div></div><div><div>11. For label attachment, <b>label sensor</b> will beep/buzz if detects the <b>label code</b>. After attachment, press the <b>SW button</b> using both index finger (same timing). Go sound will be heard.</div><div><div>SW Button For LABEL only</div></div><div><div>12. Conduct <b>POINT CHECKING</b> before removing the harness from jig.</div><div><div>13. After point checking, remove the harness from toggle clamp, unlock the y-taping guide, remove Cheker 2 up to Checker 1.</div></div></div></div><div><div><div>BANDO GUN</div></div></div><div><div></div><div>1. No loose attachment of clamp 2. No damaged clamp 3. No missing parts</div><div><div>Important reminders/Note/s:</div><div>1. Make sure no gap between the <b>PCB</b> and <b>stopper jig</b>.</div><div><div>BANDO GUN ILLUSTRATION</div><div></div><div>FLAT NOSEPIECE    EXTENDED NOSEPIECE</div><div>NO WRONG USE OF BANDO GUN</div></div></div></div></div></div>		

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**PARTS:**  
1. Assy parts  
2. Label 7V4020-0020

JIG:

1. Clamp Assembly jig  
2. Label Dispenser

NO.	PROCESS NAME		WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS																		
4	Clamp Assy	Label attachment	<table border="1"><thead><tr><th>Model</th><th>Items</th><th>Item Name</th></tr></thead><tbody><tr><td>7R0102</td><td>73240-0C140</td><td>Driver Manual</td></tr><tr><td>7R0103</td><td>73240-0C150</td><td>Driver Power</td></tr><tr><td>7R0104</td><td>73240-0C160</td><td>Driver PWR-MEM</td></tr><tr><td>7R0105</td><td>73230-0C170</td><td>Passenger Manual</td></tr><tr><td>7R0106</td><td>73230-0C180</td><td>Passenger Power</td></tr></tbody></table> <div><div>03 → Model code</div><div>73240-0C150 Driver Power → Item no. &amp; name</div><div>1. Get the label. <b>Note: Check the model code, item no. &amp; name</b></div></div> <div><div>2.Align the end part of label in the jig.</div><div>3.Fold the center part of the label.</div></div> <div><div>4. Align both end part of label.</div><div>5.After alignment , Press the label with both fingers .</div></div> <div><div>6. Press the label upside down using finger.</div><div><div><div>GOOD</div><div>Acceptable overlap 0~1mm</div></div><div>NG</div></div></div>	Model	Items	Item Name	7R0102	73240-0C140	Driver Manual	7R0103	73240-0C150	Driver Power	7R0104	73240-0C160	Driver PWR-MEM	7R0105	73230-0C170	Passenger Manual	7R0106	73230-0C180	Passenger Power	n/a	<div>1. No bubbles 2. No damage 3. No peel off 4. No wrong use of label 5. No missing parts 6. No loose attachment 7. No wrong usage of label</div>
			Model	Items	Item Name																		
7R0102	73240-0C140	Driver Manual																					
7R0103	73240-0C150	Driver Power																					
7R0104	73240-0C160	Driver PWR-MEM																					
7R0105	73230-0C170	Passenger Manual																					
7R0106	73230-0C180	Passenger Power																					

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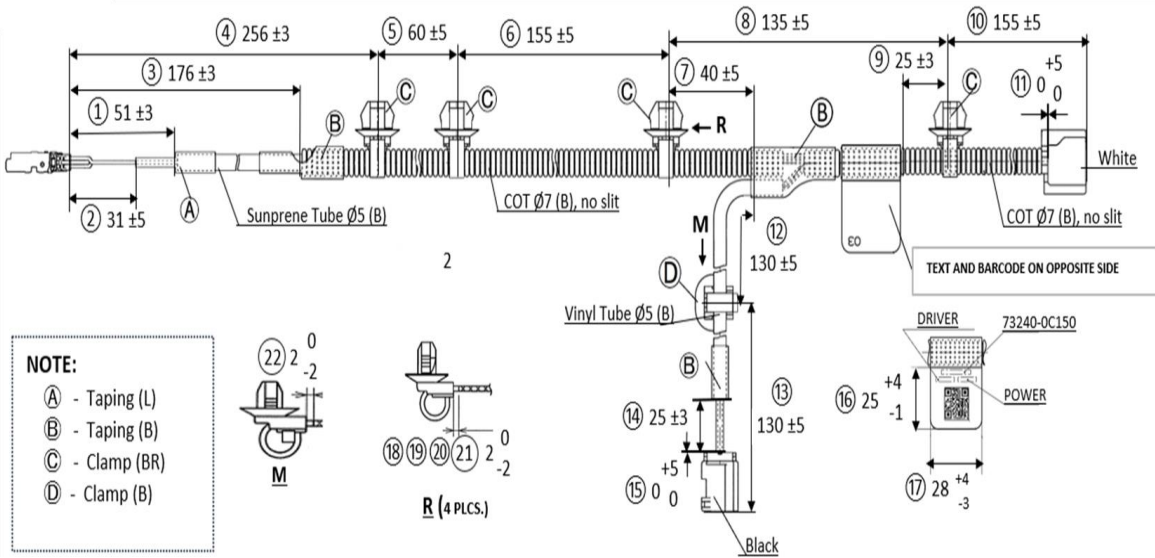

☐ PROTOTYPE☐ PRE-LAUNCH☒ MASSPRO

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PARTS:	1. Assy parts		JIG:	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
5	Clamp Assy  Measurement	<div><div>MEASURING TAPE</div></div>  <div><b>NOTE:</b> A - Taping (L) B - Taping (B) C - Clamp (BR) D - Clamp (B)</div>	<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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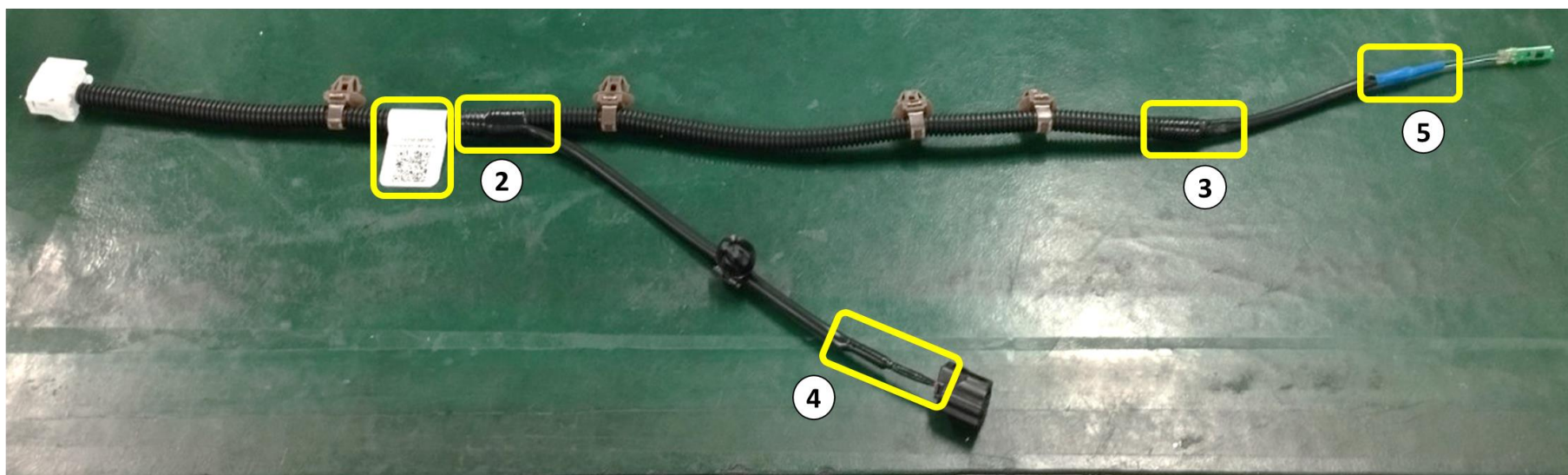
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**PARTS:**

1. Assy parts

JIG:

n/a

**VISUAL INSPECTION/ QUALITY CHECKPOINTS****CLAMP ASSY****7R0103-7023B****1** No Wrong facing of QR code label**2** **3** **4** No Missing Tape (Black tape)**5** No Missing Tape (Blue tape)

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