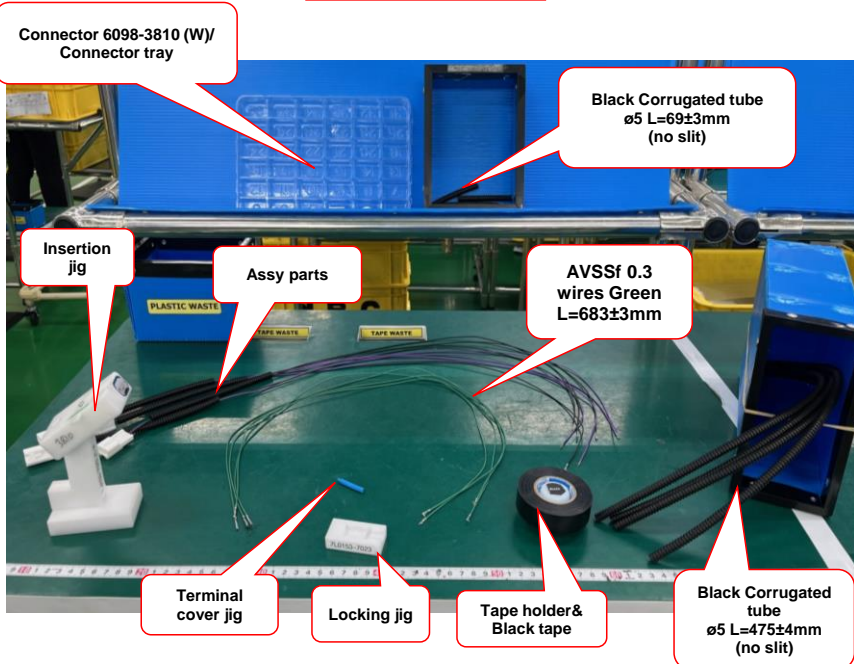




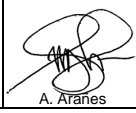
	WORK INSTRUCTION TAPING ASSEMBLY PROCESS				Effectivity Date: January 13, 2025	
	Process Name/Title:				Validity Date: n/a	
	Model code/Part number: 311D / 7L0153-7023		Customer: TRQSS Car Model: TOYOTA-RAV4		Document No.: WI-ENG-PDE-963A	
	Purpose: <input type="checkbox"/> PROTOTYPE <input type="checkbox"/> PRE-LAUNCH <input checked="" type="checkbox"/> MASSPRO		Revision No.: 2		Page No.: 1 of 7	

PARTS: 1. Connector 6098-3810 (W); AVSSf 0.3 Green wires L=683±3mm; Black Corrugated tube ø5 L=475±4mm (no slit)		JIG: 1. Insertion jig 2. Terminal cover jig 3. Locking jig	
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE
1	P1 Table lay-out	<div style="text-align: center;"> TABLE LAY-OUT </div> 	<div> Safety Instruction Be sure to wear required personal protective equipment during operation (gloves, finger cots, etc.) </div> <div> Housekeeping 1. Maintain and always practice 5's. 2. Personal things on the workplace is prohibited. Keep it in your locker. </div> <div> Alert level For any trouble, inform the Assembly Assistant Supervisor or Line Leader for immediate corrective action. </div>
		QUALITY POINTERS	
		1. No missing parts/tools 2. No excess parts/tools Document references: 1. Refer to WI-ENG-PDE-1018 for Offline Assembly process 2. Refer to WI-PRO-CNC-017 for Wire Strip lenght tolerance.	
		<div style="text-align: center;"> CONNECTOR ILLUSTRATION </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> GOOD  6098-3802 (W) </div> <div style="text-align: center;"> NG  6098-5668 (W) </div> </div>	

Revision History						Prepared by	Reviewed by	Approved by	Noted by
01/13/25	2	Additional Quality pointers "No insufficient tape" and add document references (Page 6) as countermeasure to customer claim.	D. Castillo	C. Villanueva	A. Arañes	n/a	 D. Castillo	 C. Villanueva	 A. Arañes
08/28/24	1	Change purpose from Pre-launch to Masspro. Additional table lay-out and provide insertion jig. Seprate some process to Offline and Clamp assembly process. Update Visual Inspectios/ Quality Checkpoints.	D.Castillo	C.Villanueva	A. Arañes	n/a			
08/20/24	0	Initial issue	D.Castillo	C.Villanueva	A. Arañes	n/a			
Eff. Date	Rev. No	Details of Change	Revised	Reviewed	Approved	Noted	Est. Date:	August 20, 2024	

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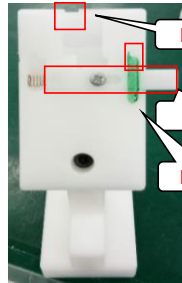


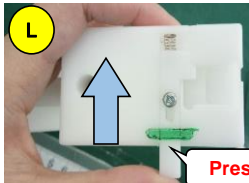
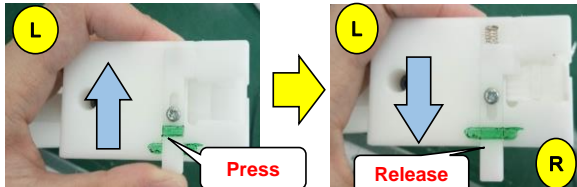
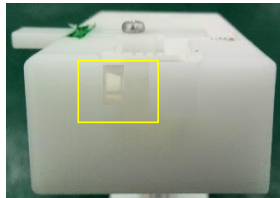
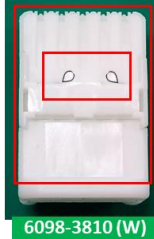
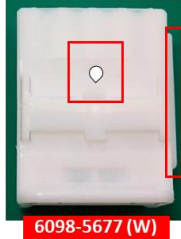
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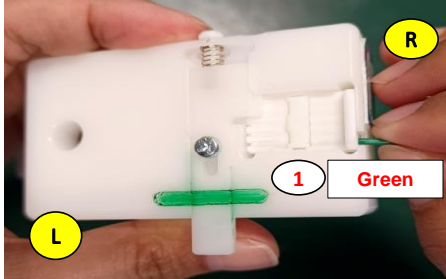
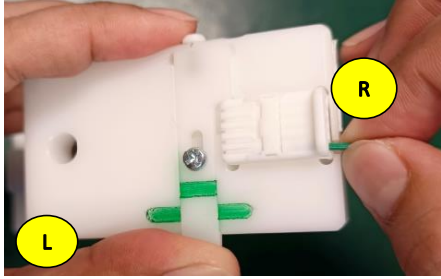
PARTS:	1. Connector 6098-3810 (W)		JIG:	1. Insertion jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
2	P1 Connector setting to insertion jig 6098-3810(W)	<div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> <div><p>1. Press the lock of insertion jig using left thumb.</p><p>2. Insert the connector 6098-3810 into jig using right hand and release the lock.</p><p>3. Check the holes/terminal slot for G wires.</p></div>	n/a	<div><div>CONNECTOR ILLUSTRATION</div><div><div></div><div></div></div></div> <div><p>1. Use provided jig per model</p><p>2. No wrong usage of parts</p><p>3. No wrong orientation of connector</p><p>4. No damaged connector</p></div>

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	WORK INSTRUCTION				Effectivity Date:		January 13, 2025	
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	Model code/Part number: 311D / 7L0153-7023		Customer: TRQSS		Car Model: TOYOTA-RAV4		Document No.: WI-ENG-PDE-963A	
	Purpose: <input type="checkbox"/> PROTOTYPE <input type="checkbox"/> PRE-LAUNCH <input checked="" type="checkbox"/> MASSPRO				Revision No.:		2	Page No.:

PARTS:		1. Black Corrugated tube ø5 L=69±3mm (no slit) 2. AVSSf 0.3 Green wire L=659±3mm		JIG:	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
3	Wire Insertion to Black Corrugated tube ø5 L=69±3mm (no slit)	<div>  <div> 1. Get the Black Corrugated tube ø5 L=69±3mm (no slit) using left hand and get AVSSf 0.3 Green wire L=69±3mm then insert using right hand. </div> </div>		n/a	Document references: 1. Refer to WI-PRO-CNC-017 for Wire Strip lenght tolerance. 1. No wrong usage of parts. 2. No deformed terminal
4	P1 Wire insertion to Connector 6098-3810 (W)	<div>  <div> CONNECTOR ORIENTATION </div>  <div> WIRE FACING </div>  <div> 1. Get the Green wire and insert to Slot 1 of connector using right hand. Conduct 2x push pull after wire insertion. </div>  <div> 2. After insertion, push the lock using left thumb and then hold the wires and gently pull out the connector from jig using right hand. </div> </div>			1. No wrong use of connector 2. No damaged connector 3. No wrong insertion of wires 4. No loose insertion 5. One by one insertion 6. No deformed terminal 7. No wrong wire facing Important reminder's/Note: 1. Please hold the wire near terminal. 2. Make sure wires are properly inserted. Conduct Pull-Push-Pull-Push after insertion. Do not exert extra force. Document references: 1. Refer to WI-PRO-CNC-017 for Wire Strip lenght tolerance. 2. Refer to GL PRO-ASY-029 for pull-push-pull-push procedure

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PARTS:		1. Assy parts 2. Black Corrugated tube ø5 L=475±4mm (no slit)		JIG:	1. Terminal cover jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
6	P1 Wire Insertion to Black Corrugated tube ø5 L=475±4mm (no slit)	<div><p>1. Combine the B-V-G wires using both hands. Get the terminal cover jig using right hand then insert to B-V-G wires both hands.</p></div> <div><p>2. Get the Corrugated tube ø5, L=475±4mm using right hand then insert to B-V-G wires using both hands.</p></div> <div><p>3. After insertion, remove the terminal cover jig using right hand.</p></div>		<div>Terminal cover Jig</div> 	1. No wrong usage of parts. 2. No deformed terminal

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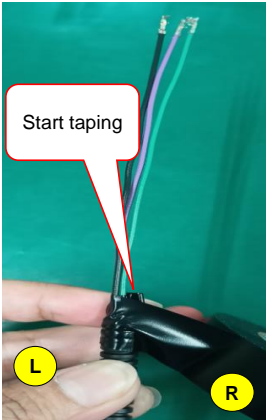
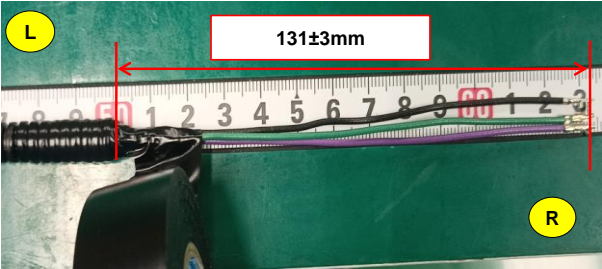
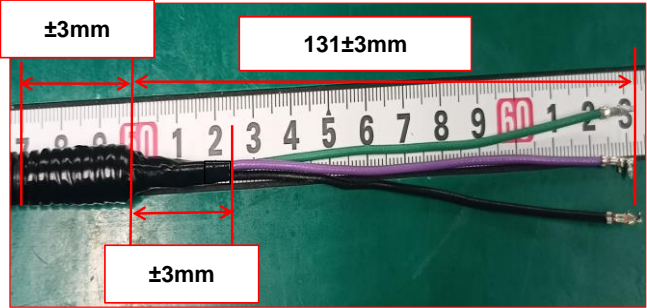

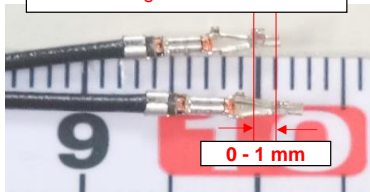
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PARTS:		1. Assy parts 2. Black tape		JIG:	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
7	P1 Taping 1 Black corrugated tube to wire near terminal	<div></div> <div></div> <div>2. Measure from end of COT up to terminal pointed tip 131±3mm then continue the taping process using both hands</div> <div></div> <div>3. After taping, check the measurement, terminal alignment and taping condition.</div>		<div>MEASURING TAPE</div> 	<p>Important reminders/Note/s:</p> <p>1. Please use calibrated/verified measuring tape when getting the measurement.</p> <p>Document references:</p> <p>1. Refer to WI-PRO-ASY-001A for Taping process</p> <p>1. No flip-out tape 2.No peel-off tape 3. No loose tape 4. No wrong dimension 5. No wrong use of tape 6. No missing tape 7. No insufficient tape</p> <div>Wire alignment tolerance</div> 

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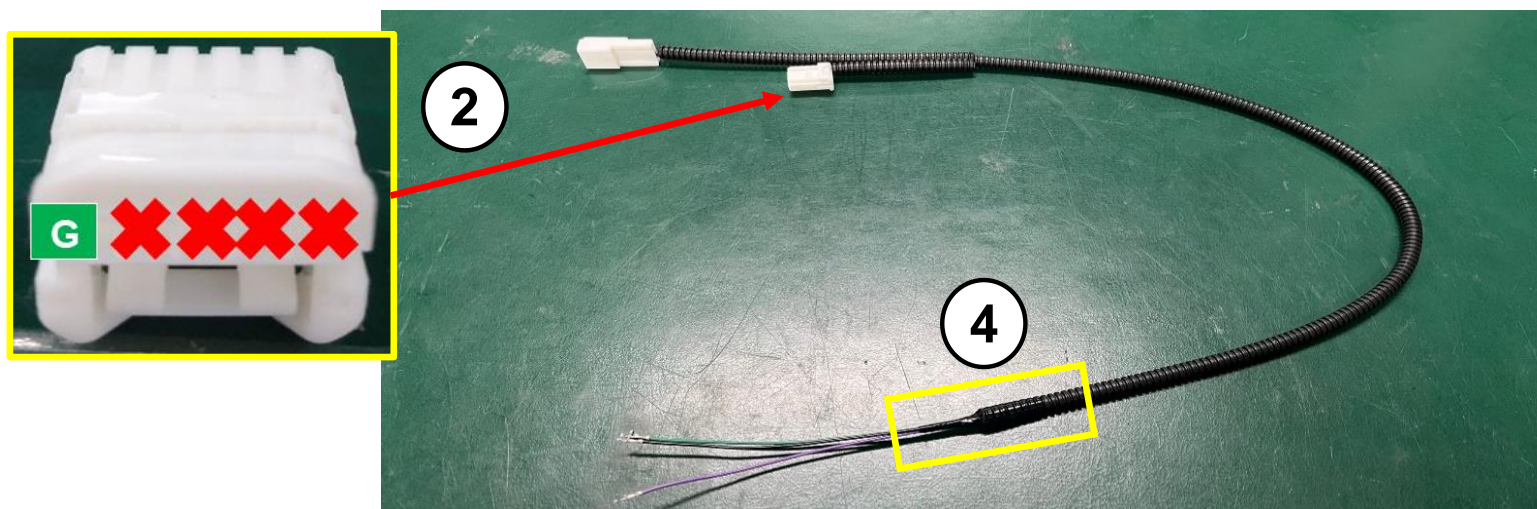
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PARTS:

1. Assy parts

JIG:

n/a

VISUAL INSPECTION/ QUALITY CHECKPOINTS**TAPING - P1****7L0153-7023****1** No **Unlocked/half-locked connector****3** No **Terminal Backing out****2** No **Wrong insert****4** No **Missing tape**

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