



WORK INSTRUCTION

Effectivity Date:

April 28, 2025

Process Name/Title:

TAPING ASSEMBLY PROCESS

Validity Date:

n/a

Model code/Part number:

400D / 7L0163-7020A

Customer:

TRQSS

Car Model:

TOYOTA-bZ4X (BEV)

Document No.:

WI-ENG-PDE-1240

Purpose:



PROTOTYPE



PRE-LAUNCH



MASSPRO

Revision No.:

0

Page No.:

1 of 9

PARTS:

1. Black Corrugated tube Ø5 L=69+3mm (No slit)
2. AVSSf 0.3 B-B wires L=209+3mm

JIG:

n/a

NO.

PROCESS NAME

WORK PROCEDURE/ ILLUSTRATION

TOOLS/PPE

QUALITY POINTERS

1

P1

Wire insertion to
Black Corrugated tube Ø5
L=69+3mm (No slit)



1. Get the Black Corrugated tube **Ø5 L=69+3mm (No slit)** using right hand then insert the B-B wires.

Safety Instruction

Be sure to wear required 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.

Document reference/s:

1. Refer to **WI-PRO-CNC-017** for Wire and Strip Length Tolerance

1. No deformed terminal
2. No wrong usage of parts

Revision History

Eff. Date	Rev. No	Details of Change	Revised	Checked	Reviewed	Approved	Prepared by	Checked by	Reviewed by	Approved by
04/28/25	0	Initial issue. Change Color of tape from SV tube (Vinyl) to wire near terminal (Brown to black tape. Change Connector part number from P/N: 6098-5668 (W) to 6098-5673 (GR).	M. Ariola	J. Loterte	C. Villanueva	A. Arañes	M. Ariola	J. Loterte	C. Villanueva	A. Arañes

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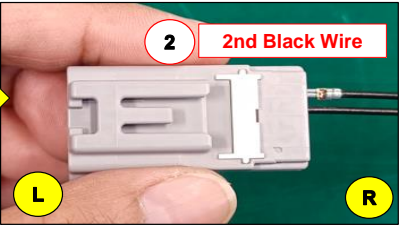
MASSPRO

Revision No.:

0

Page No.:

2 of 9

PARTS:	1. Connector 6098-5668 (W)			JIG:	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
2	P1 Wire Insertion to Connector 6098-5668 (W)	<div> CONNECTOR ORIENTATION</div> <div> TERMINAL FACING</div> <div> 1 1st Black Wire</div> <div> 2 2nd Black Wire</div> <div>1. Hold the Connector 6098-5668 (W) then get the 1st Black wire then insert to terminal slot 1 using right hand. Conduct 2x pull-push after wire insertion. Note: Insertion of wire must be from Left to right</div> <div>2. Get the 2nd Black wire then insert to terminal slot 2 using right hand. Conduct 2x pull-push after wire insertion. Note: Insertion of wire must be from Left to right</div>		n/a	<div>1. Use the provided jig per model 2. No wrong usage of parts 3. No wrong orientation of connector 4. No damaged connector</div> <div>Important reminders/Note/s: 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.</div> <div>Document reference/s: 1. Please refer to GL-PRO-ASY-029 for Pull-Push procedure.</div>

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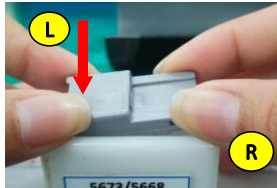
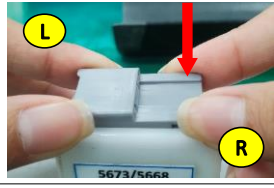



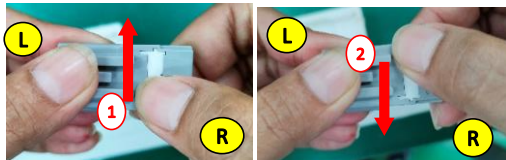





WI-ENG-PDE-1240

Revision No.:

0

Page No.:

3. of 9

PARTS:	1. Assy parts		JIG:	1. Locking jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
3	P1 Connector lock	<div><div><p>1. Load the connector into the jig holding both side of the connector, tip first.</p></div><div><p>2. Press the lower part of connector to fully insert into the locking jig.</p></div><div><p>Right thumb-Lower Left thumb-middle</p><p>3. Press the lower parts of connector using right hand while left hand holding the middle.</p></div><div><p>Right thumb-upper Left thumb-middle</p><p>4. Press the upper part of connector using right hand while left hand holding the middle.</p></div><div><p>Right thumb-middle Left thumb-middle</p><p>5. Lift then press the connector in the middle using left and right hand.</p></div><div><p>6. Ensure that connector is in locked condition by slide touching the connector lock based on the sequence illustrated.</p></div></div>	<div>LOCKING JIG</div> 	<div>1. Use the provided jig per model 2. No wrong usage of parts 3. No wrong orientation of connector 4. No damaged connector</div> <div>Important reminders/Note/s: 1. Manual locking may cause damaged connector. Document references: 1. Refer WI-PRO-KIT-001 Proper locking and checking of connector lock.</div> <div><div><p>GOOD</p><p>Full Lock</p></div><div><p>NG</p><p>Half Lock</p></div></div> <div><p>Before pressing</p></div> <div><p>After pressing</p></div>

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MASSPRO

Revision No.:

0

Page No.:

4 of 9

PARTS:

1. Assy parts
2. Clip type clamp 82711-1E360 (W)

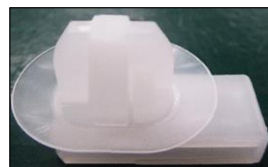
JIG:

n/a

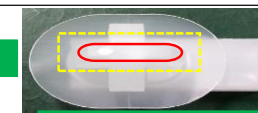
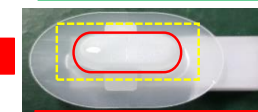
NO.**PROCESS NAME****WORK PROCEDURE/ ILLUSTRATION****TOOLS/PPE****QUALITY POINTERS**

4

P1

Clip attachment
(Clip type clamp)**CLAMP ORIENTATION**

1. Hold the Connector using left hand, get the clip type clamp **82711-1E360 (W)** then insert the clamp using right hand.

Note: Sound will be heard if properly inserted.**CLIP CLAMP ILLUSTRATION****GOOD****82711-1E360 (W)****NG****82711-12B10 (W)**

1. No wrong used of clamp
2. No damaged clamp
3. No missing clamp

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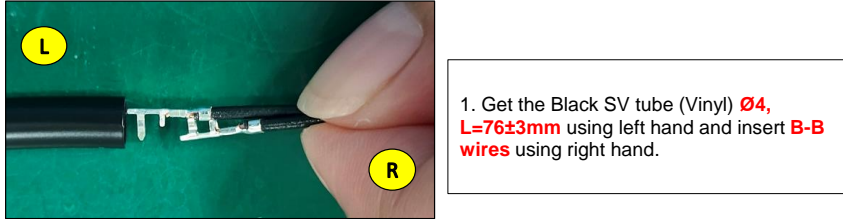
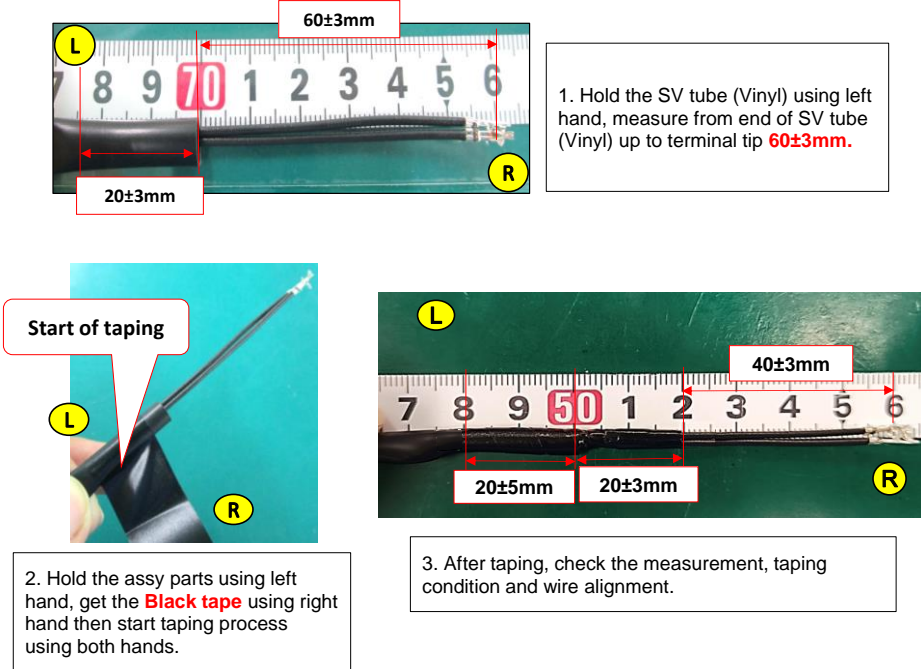

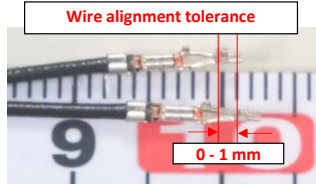
MASSPRO

Revision No.:

0

Page No.:

5 of 9

PARTS:		1. Assy parts	3. Brown tape	JIG:	n/a
		2. Black SV tube (Vinyl) Ø4, L=76±3mm			
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
5		Wire Insertion to Black SV tube (Vinyl) Ø4, L=76±3mm		n/a	1. No wrong use of parts 2. No deformed terminal
6	P1	Taping 1 Black SV tube (Vinyl) to wire near terminal			1. No flip-out tape 2. No peel-off tape 3. No loose tape 4. No missing tape 5. No wrong use of tape 6. No wrong dimension Document reference/s: 1. Refer to WI-PRO-CNC-017 for Wire and Strip length tolerance. 2. Refer to WI-PRO-ASY-0001B for the SV tube (Vinyl) to wire near terminal taping method. Important reminders/Note/s: 1. Please use calibrated/verified measuring tape when getting the measurement. 

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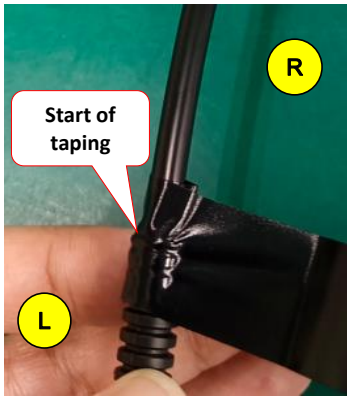
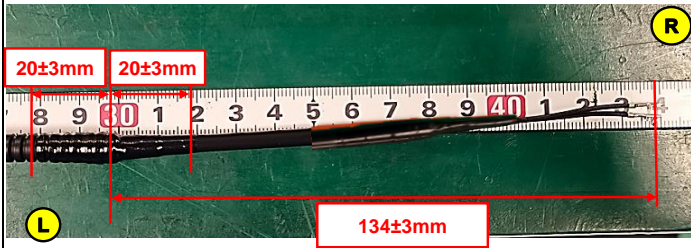

WI-ENG-PDE-1240

Revision No.:

0

Page No.:

6 of 9

PARTS:		1. Assy parts 2. Black tape		JIG:	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
7	P1 Taping 2 Black Corrugated tube to SV tube (Vinyl)	 <p>1. Measure from COT to terminal pointed tip L=134±3mm using both hands.</p>  <p>Start of taping</p> <p>1. Fix the corrugated tube and SV tube (Vinyl) using both hands. Hold the COT using left hand. Get the Black tape using right hand and start taping process using both hands.</p>  <p>3. After taping, check the measurement and taping condition.</p>			<p>Document reference/s:</p> <p>1. Refer to WI-PRO-CNC-017 for Wire and Strip length tolerance. 2. Refer to WI-PRO-ASY-0001B for Combined COT to SV tube (Vinyl) taping method.</p> <p>Important reminders/Note/s:</p> <p>1. Please use calibrated/verified measuring tape when getting the measurement.</p> <p>1. No flip-out tape 2. No peel-off tape 3. No loose tape 4. No missing tape 5. No wrong use of tape 6. No wrong dimension</p>

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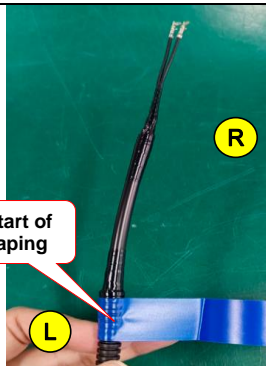



WI-ENG-PDE-1240

Revision No.:

0

Page No.:

7 of 9

PARTS:		1. Assy parts 2. Blue tape		JIG:	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
8	P1	Spot taping	<div></div> <div></div> <div><p>1. Hold the harness using left hand. Get the BLUE TAPE. Initially attach the tape on the top of the Black tape (COT taping) using right hand. (Must be 20±3mm)</p></div> <div><p>2. Measure from end of tape up to terminal pointed tip. L=154±3mm then conduct 2 windings of spot tape using both hands.</p></div> <div></div> <div><p>3. After taping, check the measurement and taping condition.</p></div>	<div><p>MEASURING TAPE</p></div>	<p>Important reminders/Note/s:</p> <p>1. Please use calibrated/verified measuring tape when getting the measurement.</p> <p>1. No flip-out tape 2. No peel-off tape 3. No loose tape 4. No missing tape 5. No wrong use of tape 6. No wrong dimension</p>

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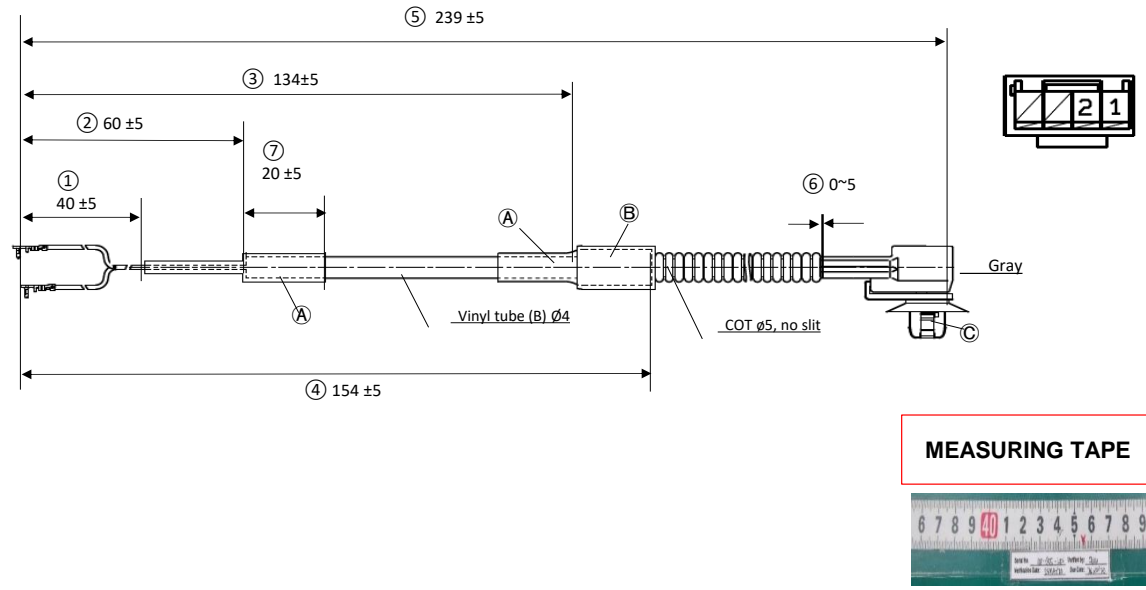
WI-ENG-PDE-1240

Revision No.:

0

Page No.:

8 of 9

PARTS:		1. Assy parts		JIG:	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
9	P1	Measurement			<p>1. No wrong dimension.</p> <p>Important reminders and note/s:</p> <p>1. Please use calibrated/verified measuring tape when getting the measurement.</p> <p>2. For Hatsumono, Nakamono and Owarimono.</p> <p>Document reference/s:</p> <p>1. Refer to WI-PRO-ASY-056 for Sub-assembly Hatsumono Nakamono Owarimono Inspection</p>

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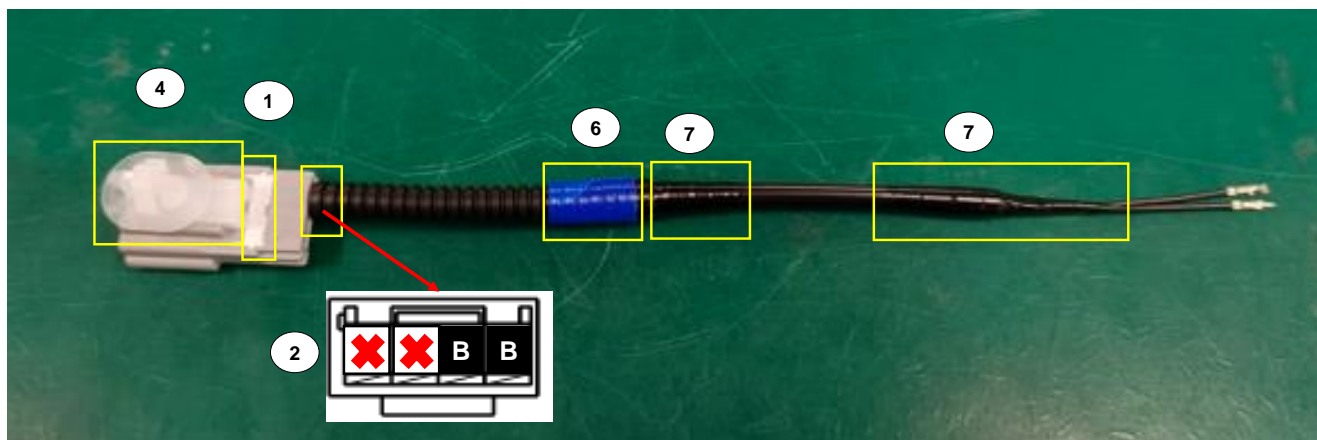
9 of 9

PARTS:

n/a

JIG:

n/a

VISUAL INSPECTION/ QUALITY CHECKPOINTS**P1****7L0163-7020A**

- ① No Unlocked/Half-locked connector
- ② No Wrong Insert
- ③ No Terminal Backing Out
- ④ No Missing clip
- ⑤ No Deformed Terminal
- ⑥ No Wrong used of tape
- ⑦ No Missing tape

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