

**WORK INSTRUCTION**Process Name/Title: **TAPING ASSEMBLY PROCESS**

Effectivity Date:

March 11, 2025Model code/Part number: **559D / 75N401-0030**Customer: **TRJ**Car Model: **TOYOTA HI-ACE**

Validity Date:

n/aPurpose: ☐ PROTOTYPE☐ PRE-LAUNCH☒ MASSPRO

Document No.:

WI-ENG-PDE-892

Revision No.:

1

Page No.:

1 of 17**PARTS:**

1. Connector 1746872-1 (B); connector PBVP-8V-S (W); connector PBVP-10V-S (W); Wire AVSS 0.3 BR L=384±2mm; B L=199±2mm; Y L=197±2mm; W/G L=372±2mm; P L=193±2mm; V L=191±2mm; GR/B L=360±2mm; R L=189±2mm; R/W L=366±2mm; R/L L=360±2mm; Wire AVSS 0.3 G L=196±2mm; L L=200±2mm; Black VM tube ø8 L=146±3mm; Black VM tube ø6.5 L=146±3mm

JIG:

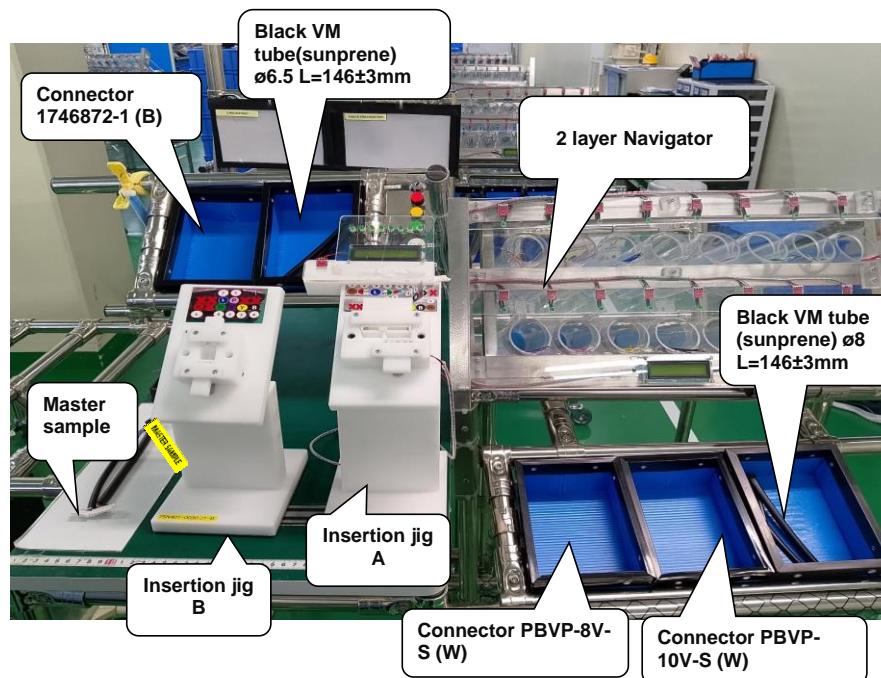
1. Insertion jig

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

1

P1

Table Lay-out

TABLE LAY-OUT**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.

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

Revision History

				Prepared by				Checked by	Reviewed by	Approved by
03/11/25	1	Change pre launch to mass pro and inclusion of table lay-out. Inclusion of permanent jig and table lay-out.		A.Hernandez	J.Loterte	C. Villanueva	A. Arañes			
01/04/25	0	Initial issue		A.Hernandez	n/a	C. Villanueva	A. Arañes			
Eff. Date	Rev. No	Details of Change		Revised	Checked	Reviewed	Approved	Est. Date:		January 4, 2025

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PARTS:

1. Wire AVSS 0.3 BR L=384±2mm; B L=199±2mm; Y L=197±2mm; W/G L=372±2mm; P L=193±2mm; V L=191±2mm; GR/B L=360±2mm; R L=189±2mm; R/W L=366±2mm; R/L L=360±2mm;
2. Black VM tube (sunprene) ø6.5 L=146±3mm

JIG:

1. Insertion jig

NO.

PROCESS NAME

WORK PROCEDURE/ ILLUSTRATION

TOOLS/PPE

QUALITY POINTERS

3

P1

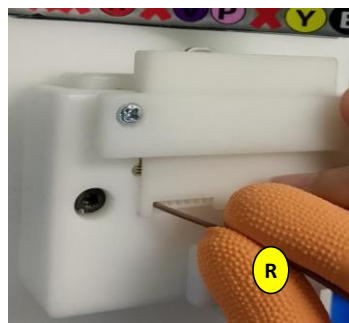
Wire insertion to
Connector
PBVP-8V-S (W)

INSERTION SEQUENCE FROM LEFT TO RIGHT

Terminal facing



1	2	3	4	5	6	7	8
BR	R/W	L	W/G	R/L	G	GR/B	X
384	366	200	372	360	196	360	



1. Get the **R/L wire** using right hand and insert to connector. Repeat the process for **OR-B/W-R/W-LG-GR/B-B-Y-V-R wires**.

Note: Follow the insertion sequence based on the illustration.

STEERING
NAVIGATION(2 layer)



CONTROLLER



1. Use provided jig per model
2. No wrong usage of parts
3. One by one insertion
4. No wrong insertion
5. No deformed terminal
6. No stuck of terminal tip

Important reminders/Note/s:

1. Make sure wires are properly inserted. Conduct **Pull-Push-Pull-Push** after insertion. Do not exert extra force.
2. Please hold the wire near terminal during insertion.
3. Follow the insertion sequence based on the illustration.

Document references:

1. Refer to **GL-PRO-ASY-029** for Pull-Push procedure.
2. Refer to **WI-ENG-PDE-044** for Steering Navigation Controller procedure.

4

Wire insertion to
Black VM tube
(sunprene)
ø6.5 L=146±3mm



1. Get the **Black VM tube (Sunprene) ø6.5 L=146±3mm** using right hand. Hold the wires using left hand and insert the wires using right hand.

N/A

1. No wrong usage of parts
2. No deformed terminal
3. No tangled wires

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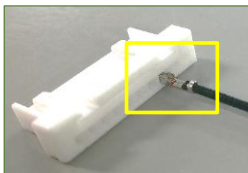

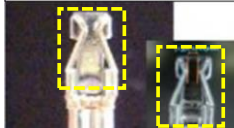

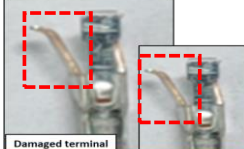
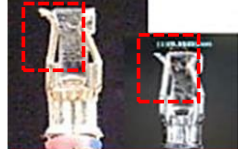
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PARTS:		1. Wire AVSS 0.3 BR L=384±2mm; B L=199±2mm; Y L=197±2mm; W/G L=372±2mm; P L=193±2mm; V L=191±2mm; GR/B L=360±2mm; R L=189±2mm; R/W L=366±2mm; R/L L=360±2mm;		JIG:	1. Insertion jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
5	P1 Wire insertion to connector PBVP-10V-S (W) (Continuation)	<div><div>Proper alignment of terminal to connector</div><div></div><div><div>BACK VIEW OF TERMINAL</div><div></div><div>GOOD Terminal condition</div></div><div><div>FRONT OF TERMINAL</div><div></div><div>GOOD Terminal condition</div></div></div> <div><div>Improper alignment of terminal to connector</div><div></div><div><div>BACK VIEW OF TERMINAL</div><div></div><div>Damaged terminal NO GOOD Terminal condition</div></div><div><div>FRONT VIEW OF TERMINAL</div><div></div><div>NO GOOD Terminal condition</div></div></div> <div>Note: <i>*Make sure the terminal was in proper alignment before insert.</i> <i>*Avoid hitting the terminal into the connector during wire insertion, if encountered abnormality stop the process and call the attention of Immediate superior and Automatically disposed and replace the unit.</i></div>			<div>1. Use provided jig per model 2. No wrong usage of parts 3. No wrong insertion 4. No deformed terminal 5. No stuck of terminal tip 6. One by one insertion</div> <div>Important reminders/Note/s: <i>1. Make sure wires are properly inserted. Conduct Pull-Push-Pull-Push after insertion. Do not exert extra force.</i> <i>2. Please hold the wires near terminal during insertion.</i> <i>3. Automatically dispose and replace the unit if once encountered bend terminal, difficulty of insertion and half-locked connector.</i> <i>4. Insertion of wires must be from left to right.</i></div> <div>Document reference/s: <i>1. Refer to WI-PRO-CNC-017 for Wire and Strip Length Tolerance.</i> <i>2. Refer to WI-ENG-PDE-044 for Steering Navigation Controller procedure..</i> <i>3. Refer to GL-PRO-ASY-029 for Pull-Push procedure.</i> <i>4. Refer to GL-PRO-ASY-025 for Inspection Standard for connector insertion.</i></div>

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PARTS: 1. Wire AVSS 0.3 R L=189±2mm; V L=191±2mm;P L=193±2mm;Y L=197±2mm; B L=199±2mm

JIG:

1. Insertion jig

NO.

PROCESS NAME

WORK PROCEDURE/ ILLUSTRATION

TOOLS/PPE

QUALITY POINTERS

6

P1

Wire insertion to
Connector
PBVP-10V-S (W)

INSERTION SEQUENCE FROM LEFT TO



Terminal facing

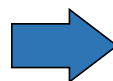
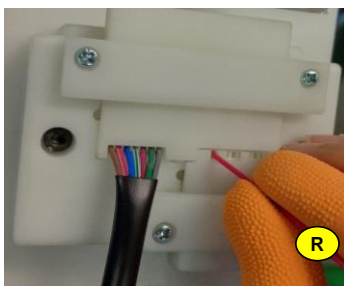
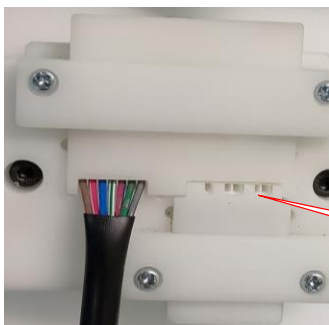


WIRE INSERTION ILLUSTRATION

1	2	3	4	5	6	7	8	9	10
X	X	R	X	V	P	X	Y	B	X
		189		191	193		197	199	

Note: Holes that need to be insert are only open.

Lower guide



1. Get the **R** wire using right hand and insert to connector. Repeat the process for **V-P-Y-B** wires.

Note: Follow the insertion sequence based on the illustration.

**STEERING
NAVIGATION(2 layer)**



CONTROLLER



1. Use provided jig per model
2. No wrong usage of parts
3. One by one insertion
4. No wrong insertion
5. No deformed terminal
6. No stuck of terminal tip

Important reminders/Note/s:

1. Please hold the wire near terminal during insertion.
2. Refer to **GL-PRO-ASY-029** for Pull-Push procedure.
3. Make sure wires are properly inserted. Conduct **Pull-Push-Pull-Push** after insertion. Do not exert extra force.
4. Follow the insertion sequence based on the above illustration.

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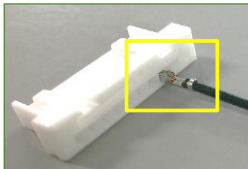
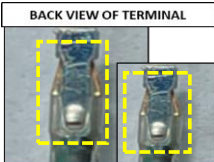
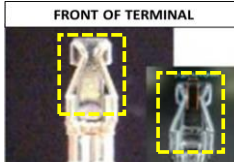

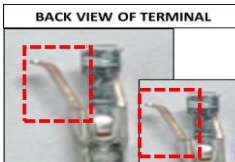
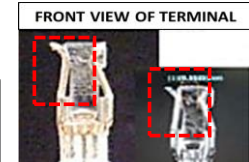
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PARTS:	1. Wire AVSS 0.3 G L=196±2mm; L L=200±2mm		JIG:	1. Insertion jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
7	P1 Wire insertion to connector PBVP-10V-S (W) (Continuation)	<div><div>Proper alignment of terminal to connector</div><div></div><div><div>BACK VIEW OF TERMINAL</div><div></div><div>GOOD Terminal condition</div></div><div><div>FRONT OF TERMINAL</div><div></div><div>GOOD Terminal condition</div></div></div> <div><div>Improper alignment of terminal to connector</div><div></div><div><div>BACK VIEW OF TERMINAL</div><div></div><div>Damaged terminal NO GOOD Terminal condition</div></div><div><div>FRONT VIEW OF TERMINAL</div><div></div><div>NO GOOD Terminal condition</div></div></div> <div>Note: *Make sure the terminal was in proper alignment before insert. *Avoid hitting the terminal into the connector during wire insertion, if encountered abnormality stop the process and call the attention of Immediate superior and Automatically disposed and replace the unit.</div>		<div>1. Use provided jig per model 2. No wrong usage of parts 3. No wrong insertion 4. No deformed terminal 5. No stuck of terminal tip 6. One by one insertion</div> <div>Important reminders/Note/s:</div> <div>1. Make sure wires are properly inserted. Conduct <u>Pull-Push-Pull-Push</u> after insertion. Do not exert extra force. 2. Please hold the wires near terminal during insertion. 3. Automatically dispose and replace the unit if once encountered bend terminal, difficulty of insertion and half-locked connector. 4. Insertion of wires must be from left to right.</div> <div>Document reference/s:</div> <div>1. Refer to WI-PRO-CNC-017 for Wire and Strip Length Tolerance. 2. Refer to WI-ENG-PDE-044 for Steering Navigation Controller procedure.. 3. Refer to GL-PRO-ASY-029 for Pull-Push procedure. 4. Refer to GL-PRO-ASY-025 for Inspection Standard for connector insertion.</div>

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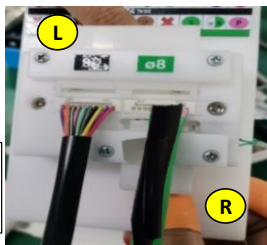
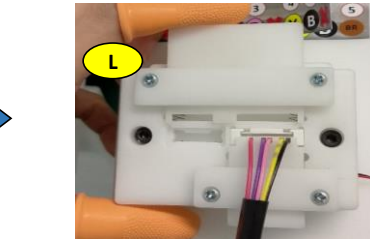
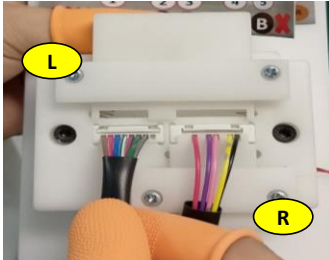
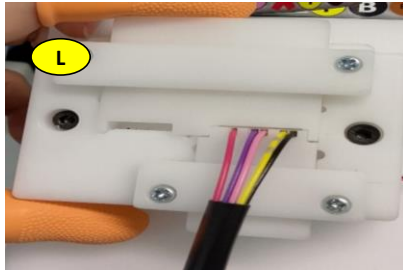
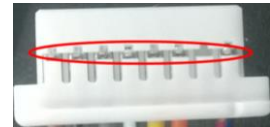
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PARTS:		1. Assy parts 2. Black VM tube (sunprene) ø8 L=146±3mm		JIG:	1. Insertion jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
8	P1 Wire insertion to Black VM tube (sunprene) ø8 L=146±3mm	<div><div><p>1. Get the Black VM tube (Sunprene) ø8 L=146±3mm using right hand. Hold the wire using left hand then insert the wires.</p></div><div><p>2. Press the Upper and lower guide button using left and right hand.</p></div><div></div><p>3. Remove the 1st connector with inserted wires and Black VM tube (Sunprene) using right hand then press the upper guide using left hand. Check the wire insertion condition. Note: Second connector with inserted wire and Black VM tube (Sunprene) will stay in the jig.</p><div><p>4. Press the lower button using right hand. Holes that need to be inserted are only open.</p></div></div>		N/A	<div><p>1. No wrong usage of parts 2. No deformed terminal 3. No tangled wires</p><p>Terminal tip must be visible</p><p>Document References: 1. Refer to GL-PRO-ASY-025 for Inspection Standard for Coupler Insertion. 2. Refer to GL-PRO-ASY-043 for Verification of Fully Inserted Wires.</p></div>

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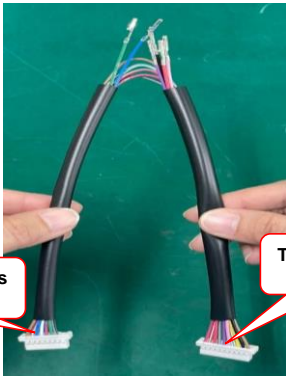
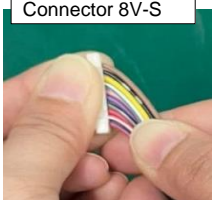
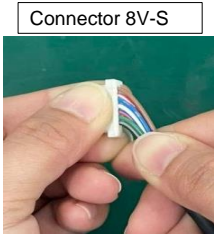

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PARTS:		1. Assy parts		JIG:	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
11	P1	Wire Folding 1	<div><div>1. Hold the Assy parts using both hands and gently fold.</div></div> <div><div><div>1. Hold the connector with Black VM tube (sunprene) ø6.5 and slightly bend the wire. Repeat the process to connector Black VM tube (sunprene) ø8. Checked the facing of both connector.</div></div></div>	n/a	<div>1. No wrong orientation of connector 2. No deformed terminal 3. No wrong terminal facing 4. No damage lance 5. No wrong folding position</div>

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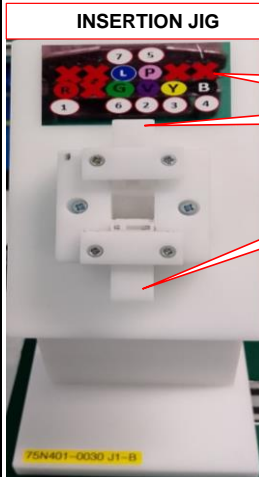
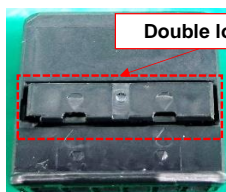

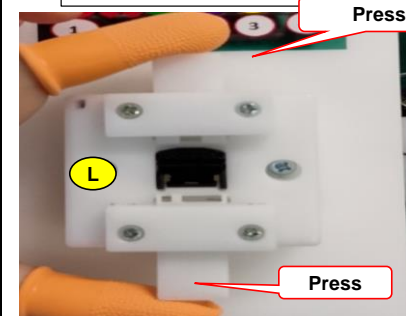
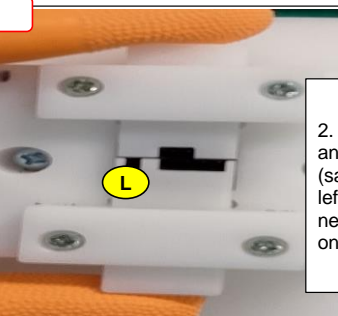
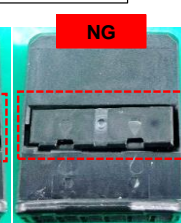
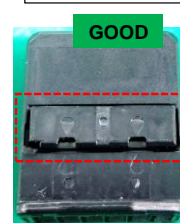


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NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
12	P1	<div><div>INSERTION JIG</div><div><div>Visual</div><div>Upper guide</div><div>Lower guide</div></div><div><div>Double lock</div><div>Note: Check the connector before insertion.</div></div><div>CONNECTOR</div><div><div>R</div></div><div><div>L</div><div>Press</div></div><div><div>L</div><div>Press</div></div><div>1. Get the connector 1746872-1 (B) and insert to insertion jig using right hand. <i>Note: Follow the connector orientation</i></div><div>2. Press the upper and lower guide (same timing) using left hand. Holes that need to be insert are only open.</div></div> <div>N/A</div>		<div>1. Use the provided jig per model</div> <div>2. No wrong usage of parts</div> <div>3. No wrong orientation of connector</div> <div>4. No damaged connector</div> <div>CONNECTOR LOCK APPEARANCE CHECK</div> <div><div>GOOD</div><div>NG</div></div> <div></div> <div>UNLOCK</div> <div>HALF-LOCKED</div> <div>CONNECTOR ILLUSTRATION</div> <div><div>GOOD</div><div>NG</div></div> <div></div> <div>1746872-1 (B)</div> <div>1376675-1 (B)</div> <div>Important reminders/Note/s: <i>1. Automatically dispose and replace the unit if once encountered bend terminal, difficulty of insertion and half-locked connector.</i> <i>2. Follow the connector orientation</i> <i>3. Check the connector before insertion.</i></div>	

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PARTS:	1. Assy parts		JIG:	Insertion jig																																		
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS																																		
13	P1 Connector setting to insertion jig 1746872-1 (B)	<div><div>INSERTION SEQUENCE FROM LEFT TO RIGHT</div><div><div><div>2ND ROW</div><div>1ST ROW</div></div><div></div></div><div><div>BLACK SUNPRENE ø6.5</div><div></div></div><div><div></div><div>Terminal Facing</div></div><div><div></div><div></div><div></div></div><div><div>1. Insert first the wires from Black Sunprene tube. Hold the R wire and insert to terminal slot 1 using right hand. Repeat the process for V-Y-B wires. <i>Note: Follow the insertion sequence based on the illustration stated above.</i></div><div>2. Hold the P wire and insert to terminal slot 5. <i>Note: Follow the insertion sequence based on the illustration stated above.</i></div></div></div> <div><div>WIRE INSERTION ILLUSTRATION</div><table><tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr><tr><td>X</td><td>X</td><td>L</td><td>P</td><td>X</td><td>X</td></tr><tr><td></td><td></td><td>200</td><td>193</td><td></td><td></td></tr><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr><tr><td>R</td><td>X</td><td>G</td><td>V</td><td>Y</td><td>B</td></tr><tr><td>189</td><td></td><td>196</td><td>191</td><td>197</td><td>199</td></tr></table></div> <div>N/A</div> <div><div>1. Use provided jig per model</div><div>2. No wrong usage of parts</div><div>3. One by one insertion</div><div>4. No wrong insertion</div><div>5. No deformed terminal</div><div>6. No stuck of terminal tip</div><div>Important reminders/Note/s:</div><div>1. Automatically dispose and replace the unit if once encountered bend terminal, difficulty of insertion and half-locked connector.</div><div>2. Make sure wires are properly inserted. Conduct Pull-Push-Pull-Push after insertion. Do not exert extra force.</div><div>3. Please hold the wire near terminal during insertion.</div><div>4. Follow the insertion sequence based on the illustration stated above.</div><div>Document references:</div><div>1. Refer to GL-PRO-ASY-029 for Pull-Push procedure.</div><div>2. Refer to WI-PRO-CNC-017 for Wire and Strip Length Tolerance</div></div>	7	8	9	10	11	12	X	X	L	P	X	X			200	193			1	2	3	4	5	6	R	X	G	V	Y	B	189		196	191	197	199
7	8	9	10	11	12																																	
X	X	L	P	X	X																																	
		200	193																																			
1	2	3	4	5	6																																	
R	X	G	V	Y	B																																	
189		196	191	197	199																																	

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WORK INSTRUCTION

TAPING ASSEMBLY PROCESS

Effectivity Date:

March 11, 2025

Process Name/Title:

Model code/Part number:

559D / 75N401-0030

Customer: TRJ

Car Model: TOYOTA HI-ACE

Validity Date:

n/a

Document No.:

WI-ENG-PDE-892

Purpose:

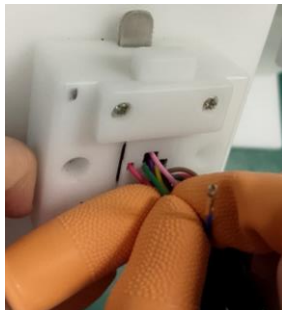
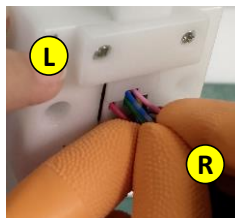
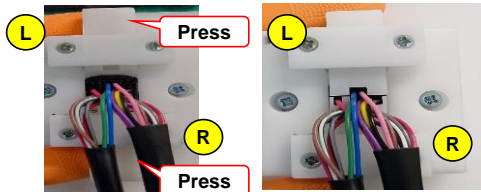
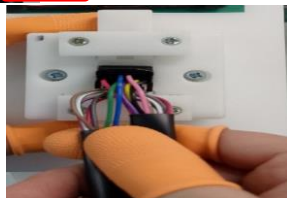
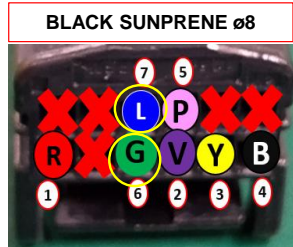
☐ PROTOTYPE☐ PRE-LAUNCH☒ MASSPRO

Revision No.:

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PARTS:		1. Assy parts		JIG:	1. Insertion jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
14	P1 Wire insertion to Connector 1746872-1 (B) (Continuation)	<div><p>3. Insert the wires from Black sunprene tube, hold the G wire using right hand and support the wire by left index finger then insert to terminal slot 6 using right hand. Repeat the process for L wire. <i>Note: Follow the insertion sequence based on the above illustration.</i></p></div> <div><p>4. Hold the L wire and insert to terminal slot 7 using right hand. <i>Note: Follow the insertion sequence based on the illustration.</i></p></div> <div><p>5. Press the upper and lower lever guide (same timing) using both hands.</p></div> <div><p>6. Remove the assy parts using right hand.</p></div> <div><p>BLACK SUNPRENE ø8</p></div> <div>N/A</div> <td><p>1. Use provided jig per model 2. No wrong usage of parts 3. One by one insertion 4. No wrong insertion 5. No deformed terminal 6. No stuck of terminal tip</p><p>Important reminders/Note/s:</p><p>1. Make sure wires are properly inserted. Conduct Pull-Push-Pull-Push after insertion. Do not exert extra force.</p><p>2. Please hold the wire near terminal during insertion.</p><p>3. Follow the insertion sequence based on the above illustration.</p><p>Document references:</p><p>1. Refer to GL-PRO-ASY-029 for Pull-Push procedure.</p></td>		<p>1. Use provided jig per model 2. No wrong usage of parts 3. One by one insertion 4. No wrong insertion 5. No deformed terminal 6. No stuck of terminal tip</p> <p>Important reminders/Note/s:</p> <p>1. Make sure wires are properly inserted. Conduct Pull-Push-Pull-Push after insertion. Do not exert extra force.</p> <p>2. Please hold the wire near terminal during insertion.</p> <p>3. Follow the insertion sequence based on the above illustration.</p> <p>Document references:</p> <p>1. Refer to GL-PRO-ASY-029 for Pull-Push procedure.</p>	

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WORK INSTRUCTION

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559D / 75N401-0030

Customer: TRJ

Car Model: TOYOTA HI-ACE

Purpose:

☐ PROTOTYPE☐ PRE-LAUNCH☒ MASSPRO

Effectivity Date:

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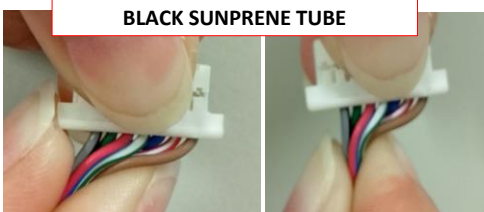
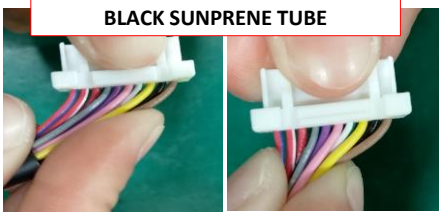
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PARTS:		1. Assy parts 2. Master sample		JIG:	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
15	P1	Wire Folding	<div><div>BLACK SUNPRENE TUBE</div><div>1. Hold the Connector PBVP-10V-S using right hand and slightly fold the wire from Black VM tube ø8 L=146±3mm (as illustrated above) using right hand.</div><div>BEFORE FOLDING</div><div>GOOD FACING</div><div>Double lock in upward position</div><div>Terminal tip is visible</div></div> <div><div>BLACK SUNPRENE TUBE</div><div>2. Hold the Connector PBVP-8V-S using right hand and slightly fold the wire from Black VM tube ø6.5 L=146±3mm (as illustrated above) using right hand.</div><div>AFTER FOLDING</div><div>NO GOOD FACING</div><div>Double lock is upward position</div><div>Terminal tip is not visible</div></div>	n/a	1. No wrong orientation of connector. 2. No tangled wires. 3. Terminal backing out.

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**WORK INSTRUCTION****TAPING ASSEMBLY PROCESS**

Process Name/Title:

Model code/Part number:

559D / 75N401-0030Customer: **TRJ**Car Model: **TOYOTA HI-ACE**

Purpose:

☐ PROTOTYPE☐ PRE-LAUNCH☒ MASSPRO

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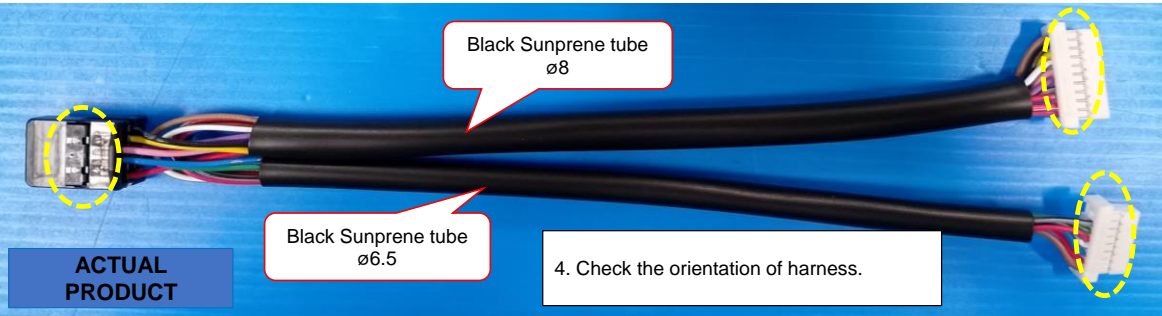



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PARTS:		1. Assy parts 2. Master sample		JIG:	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
16	P1	Visual/By two's Inspection			
		<div>1. Check the Connector lock, locking of connector is included to Steering electrical test.</div> <div>2. Check the wire alignment. Make sure no tangled wires.</div> <div>3. Check the terminal if with backing out (not fully inserted) or deformed terminal.</div> <div></div> <div>4. Check the orientation of harness.</div> <div>5. Compare to Master sample by tapping.</div> <div></div> <div></div>			<div>Document reference/s: 1. Refer to WI-QAD-QAC-252 Steering Electrical Test</div> <div>ENGINEERING SAMPLE</div> <div></div>

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Customer: TRJ

Car Model: TOYOTA HI-ACE

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Purpose:

☐ PROTOTYPE☐ PRE-LAUNCH☒ MASSPRO

Document No.:


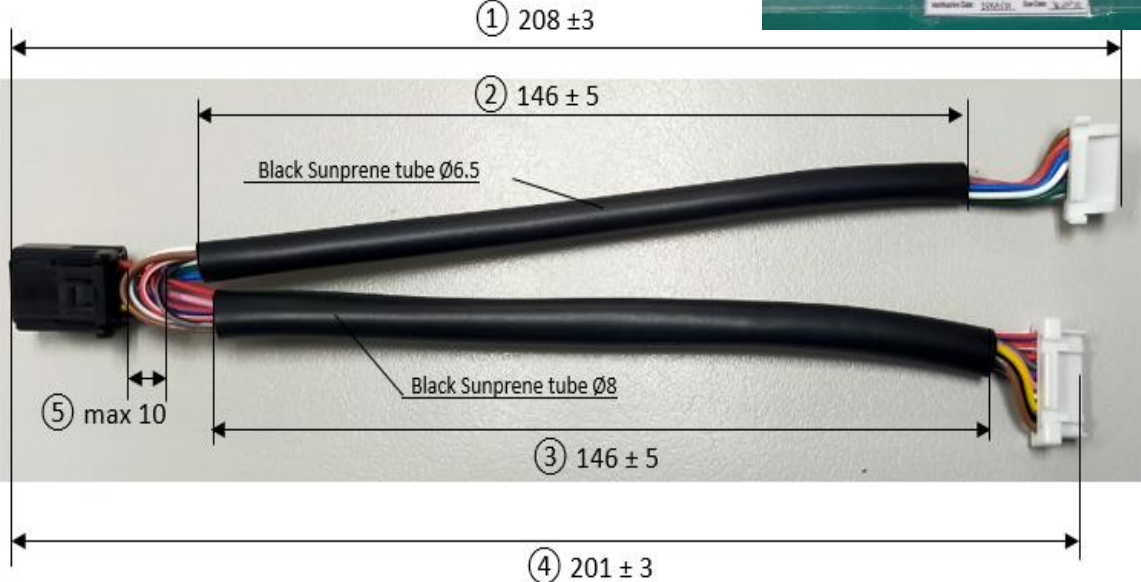
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PARTS:	1. Assy parts			JIG:	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
17	P1	Measurement	<div><div>MEASURING TAPE</div></div>		<p>Important reminders and note/s:</p> <p>1. Please use calibrated/verified measuring 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>
					
1. No wrong dimension					

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**WORK INSTRUCTION**

Process Name/Title:

TAPING ASSEMBLY PROCESS

Effectivity Date:

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Model code/Part number:

559D / 75N401-0030Customer: **TRJ**Car Model: **TOYOTA HI-ACE**

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WI-ENG-PDE-892

Purpose:

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n/a

JIG:

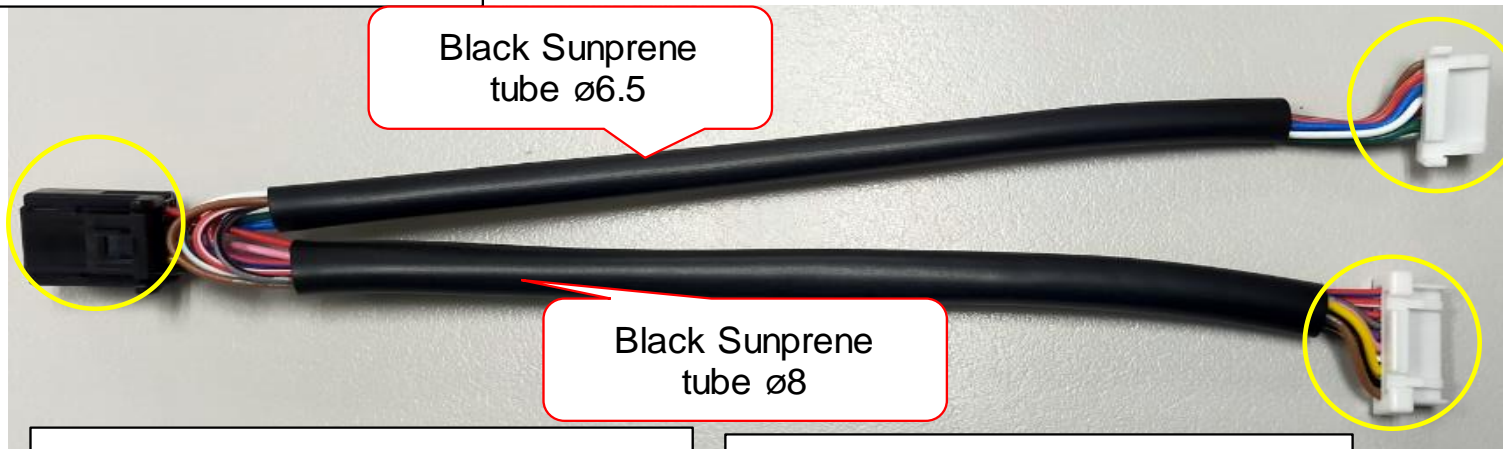
n/a

QUALITY CHECKPOINTS**P1****75N401-0030**

1. Check the connector lock. Locking of connector is included in Steering Electrical test.

2. Check the wire alignment. Must be no tangled wires.

3. Check the Terminal if with Backing out (Not fully inserted) or no deformed terminal.



4. Check the orientation of harness.

5. Compare to **Master sample** by tapping

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