

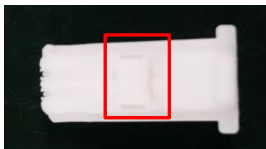

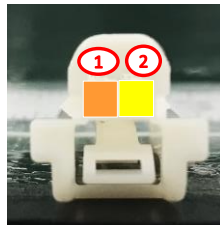
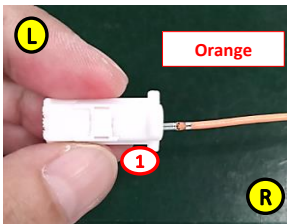
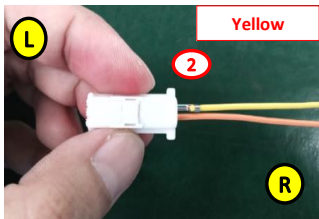


WORK INSTRUCTION TAPING ASSEMBLY PROCESS

Effectivity Date:	March 31, 2022		
Validity Date:	n/a		
Document No.:	WI-ENG-PDE-459		
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Process Name/Title:	TAPING ASSEMBLY PROCESS		
Model Code/Product Number:	200D / 7R0130-7020	Customer:	TRJ
Purpose:	<input type="checkbox"/> PROTOTYPE <input checked="" type="checkbox"/> PRE-LAUNCH <input type="checkbox"/> MASSPRO		

PARTS:	1.Connector 6098-6662(W) 2. AVSSf 0.3 Y-OR wire L=731±3mm	JIG	1. Locking Jig
--------	--	-----	----------------

NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
1	n/a Wire Insertion to Connector 6098-6662(W)	<div><p>CONNECTOR ORIENTATION</p></div> <div><p>WIRE FACING</p></div> <div><p>VISUAL REFERENCE</p></div> <div><p>1.Hold the connector using left hand. Get the Orange wire and insert to connector using right hand.</p></div> <div><p>2. Get the Yellow wire and insert to connector using right hand.</p></div>	<div><p>Safety Instruction</p><p>Be sure to wear prescribed personal protective equipment during operation (gloves, finger cots, etc.)</p></div> <div><p>Housekeeping</p><p>1. Maintain and always practice 5's. 2. Personal things on the workplace is prohibited. Keep it in your locker.</p></div> <div><p>Alert level</p><p>For any trouble, inform the Assembly Assistant Supervisor or Line Leader for immediate corrective action.</p></div>	<div><p><i>Note: Refer to WI-PRO-CNC-017 for Wire and Strip Tolerance</i></p></div> <div><p>1. No loose insertion 2. No wrong insertion 3. One by one insertion 4. No deformed terminal 5. No wrong wire facing</p></div> <div><p>Make sure wires are properly inserted. Conduct Pull-Push-Pull-Push after insertion.</p></div> <div><p><i>Note: Refer to GL-PRO-ASY-029 for Pull-Push procedure.</i></p></div>

Revision History				Prepared by		Reviewed by	Approved by	Noted by
03/31/22	0	Initial Issue.		M.Ariola	J. Loterte	C. Villanueva	A.Arañes	
Eff.Date	Rev.No	Details of Change		Revised	Reviewed	Approved	Noted	Est. Date: March 31, 2022

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

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Model Code/Product Number:

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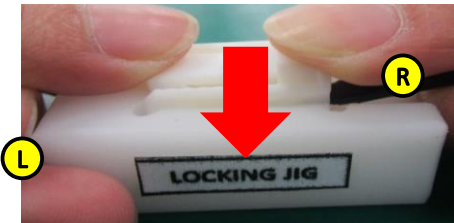
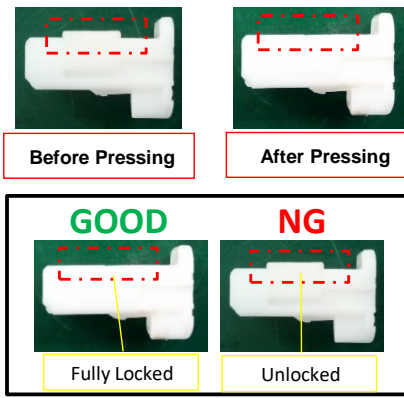
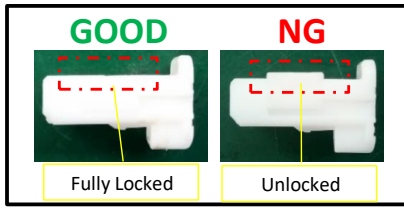
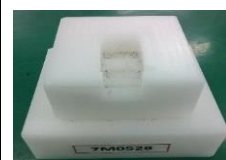

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PARTS:		1.Connector 6098-6662(W) 2. AVSSf 0.3 Y-OR wire L=731±3mm 3. Black Corrugated tube (No slit) Ø5 L=94±3mm			JIG	1. Locking jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION			TOOLS/PPE	QUALITY POINTERS
2	Connector Lock	 <p>1. Put the connector into locking jig using both hands then press 2x to lock using both hands. Touch the connector lock to confirm if properly locked.</p> <p><i>Note: Please refer to GL-PRO-ASY-017 for the verification of connector lock.</i></p>  				<p>NOTE: MANUAL LOCKING MAY CAUSED DAMAGED LOCK</p> <p>1. Use the provided jig per connector 2. No unlock/half-locked connector</p>
3	Wire insertion to Black Corrugated tube (No slit) Ø5 L=94±3mm	 <p>1. Get the Black COT Ø5 L=94±3mm using right hand and insert Y-OR wires using left hand.</p>			n/a	<p>1. No wrong use of parts 2. No deformed terminal</p>

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Model Code/Product Number: **200D / 7R0130-7020**Customer: **TRJ**

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3 of 20**PARTS:**

1. Assy parts
2. Black tape

JIG

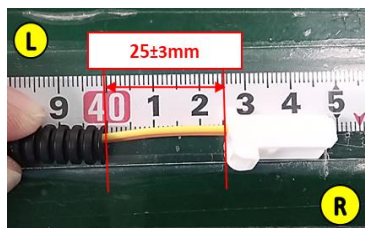
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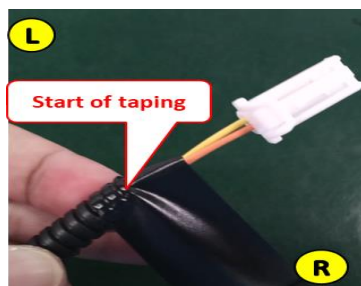
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n/a

Taping 1 to Black
Corrugated tube to wire
near connector

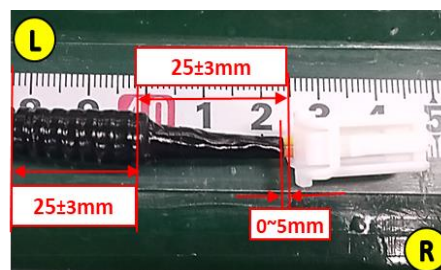


1. Measure from end of Corrugated tube up to
end of connector **25±3mm** using both hands.



2. Get the **Black tape** using right hand then
start taping process using both hands.

**Note: Please refer to WI-PRO-ASY-001 for
taping procedure.**



3. After taping, check the measurement and
taping condition.

MEASURING TAPE

Note:
Please use calibrated/verified
measuring tape when getting the
measurement.

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

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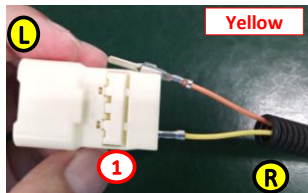
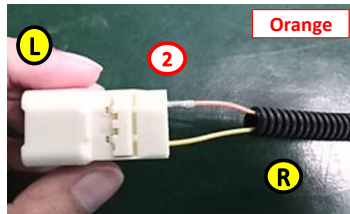
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PARTS:		1. Assy parts 2. Black Corrugated tube Ø7 L=296±3mm 3. Black Corrugated tube Ø7 L=268±3mm (No slit) 4. Connector 7282-1060 (W)	JIG	1. n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
5	Wire insertion to Black Corrugated tube Ø7 L=296±3mm (No Slit) Ø7 L=268±3mm (No Alit)	  <p>1. Get the Black COT Ø7 L=296±3mm (No slit) using right hand and insert Y-OR wires using left hand.</p> <p>1. Get the Black COT Ø7 L=268±3mm (No slit) using right hand and insert Y-OR wires using left hand.</p>	n/a	1. No wrong usage of parts 2. No deformed terminal.
6	Wire Insertion to Connector 7282-1060 (W)	     <p>1. Hold the connector using left hand. Get the Yellow wire and insert to connector using right hand.</p> <p>2. Get the Orange wire and insert to connector using right hand.</p>	n/a	<p>Note: Refer to WI-PRO-CNC-017 for Wire and Strip Tolerance</p> <p>1. No loose insertion 2. No wrong insertion 3. One by one insertion 4. No deformed terminal 5. No wrong wire facing</p> <p>Make sure wires are properly inserted. Conduct Pull-Push-Pull-Push after insertion.</p> <p>Note: Refer to GL-PRO-ASY-029 for Pull-Push procedure.</p>

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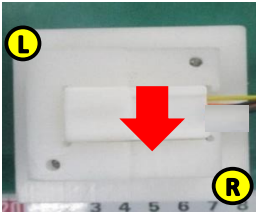


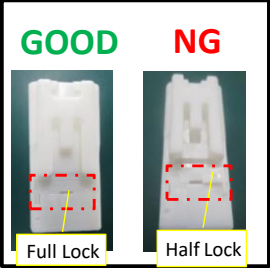
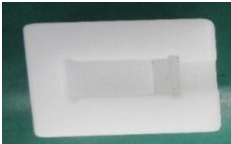
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PARTS:	1. Connector 6098-3802 (W) 2. AVSSf 0.3 V-G L=707±3mm			JIG	1. Locking jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
7	Wire insertion to connector 6098-3802 (W) n/a	<div> CONNECTOR</div> <div> WIRE FACING</div> <div> Violet 1. Hold the connector using left hand. Get the Violet wire and insert to connector using right hand.</div> <div> Green 2. Get the Green wire and insert to connector using right hand.</div>		n/a	<div>Note: Refer to WI-PRO-CNC-017 for Wire and Strip Tolerance</div> <div>1. No loose insertion 2. No wrong insertion 3. One by one insertion 4. No deformed terminal 5. No wrong wire facing</div> <div>Make sure wires are properly inserted. Conduct Pull-Push-Pull-Push after insertion</div> <div>Note: Refer to GL-PRO-ASY-029 for Pull-Push procedure.</div>
8	Connector lock	<div> 1. Put the connector into locking jig using right hand then press 2x to lock. Touch the connector lock to confirm if properly locked. Note: Please refer to GL-PRO-ASY-017 for the verification of connector lock.</div> <div> Before pressing</div> <div> After pressing</div> <div> GOOD NG Full Lock Half Lock</div>		<div>LOCKING JIG</div> 	<div>NOTE: MANUAL LOCKING MAY CAUSE DAMAGED LOCK.</div> <div>1. Use the provided locking jig per model 2. No unlock/half-lock connector</div>

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WORK INSTRUCTION

TAPING ASSEMBLY PROCESS

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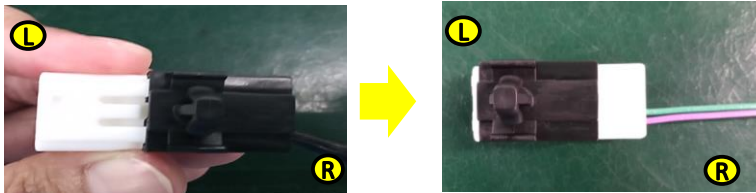

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PARTS:

1. Assy parts.
2. Clip type clamp 82711-50491 (B)

JIG

n/a

NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
9	Wire insertion to Assy parts	 <p>1. Hold the connector using left hand, get the clip type clamp 82711-50491 (B) then insert the clamp using right hand. <i>Note: Sound will be heard if properly inserted.</i></p>	n/a	1.Clamp must be fully inserted
10	Wire insertion to Black Corrugated tube(No slit) Ø5 L=71±3mm	 <p>1.Get the Black COT Ø5 L=71±3mm using right hand and insert V-G wires using left hand.</p>	n/a	1. No wrong use of parts 2. No deformed terminal

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WORK INSTRUCTION

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

Model Code/Product Number: **200D / 7R0130-7020**

Customer: **TRJ**

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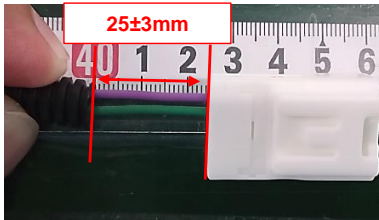
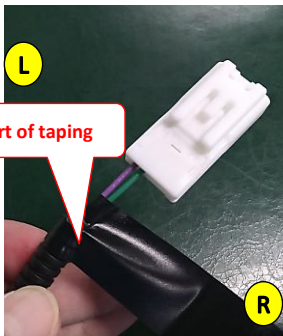
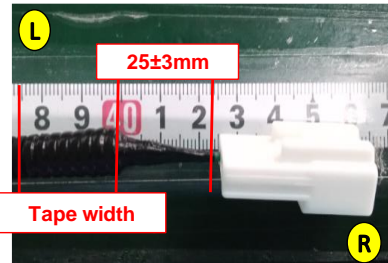

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PARTS:		1. Assy parts. 2. Black tape			JIG	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION			TOOLS/PPE	QUALITY POINTERS
11	n/a	<div>1. Measure from end of Black Corrugated tube up to end of connector 25±3mm using both hands.</div> <div></div> <div></div> <div>2. Hold the assy parts using left hand. Get Black tape using right hand and start pre-taping</div> <div></div> <div>3. After taping, check the measurement and taping condition.</div>			<div>MEASURING TAPE</div> <div></div>	<div>Note: Please use calibrated/verified measuring tape when getting the measurement.</div> <div>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</div>

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PARTS:		1. Assy parts.			JIG	n/a
NO.	PROCESS NAME		WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
12	n/a	Wire insertion to Assy parts	<div><div><p>1. Get the V-G wires and insert to COT Ø7 L=296±3mm (assy parts) using right hand.</p></div><div><p>2. Get the V-G wires and insert to COT Ø7 L=268±3mm (assy parts) using right hand.</p></div><div><p>COT Ø7 L=268±3mm</p><p>COT Ø7 L=296±3mm</p></div><div></div></div>		n/a	1. No wrong use of parts 2. No deformed terminal

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PARTS:

1. Assy parts.
2. AVSSf 0.3 V-G wires L= 707±3mm

JIG

n/a

NO.

PROCESS NAME

WORK PROCEDURE/ ILLUSTRATION

TOOLS/PPE

QUALITY POINTERS

13

n/a

Wire insertion to
connector
7282-1060 (W)

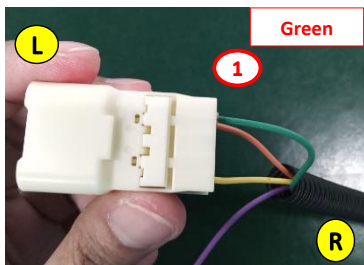
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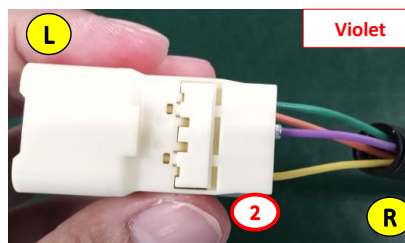
Connector Setting



Wire facing



1. Hold the connector using left hand. Get the **Green wire** and insert to connector using right hand.



2. Get the **Violet wire** and insert to connector using right hand.

n/a

Note: Refer to WI-PRO-CNC-017 for Wire and Strip Tolerance

1. No loose insertion
2. No wrong insertion
3. One by one insertion
4. No deformed terminal
5. No wrong wire facing

Make sure wires are properly inserted.
Conduct **Pull-Push-Pull-Push** after insertion.

Note: Refer to GL-PRO-ASY-029 for Pull-Push procedure.

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PARTS:		1. Black Corrugated tube Ø5 L=200±3mm (No slit) 2. AVSSf 0.3 B wires L= 576±3mm		JIG	1. Terminal cover Jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
14	n/a	<div><div></div><div><p>1. Get the terminal cover jig using right hand then insert the B-B wires using left hand.</p></div><div></div><div><p>2. Get the Black COT Ø5 L=200±3mm(No slit) using right hand and insert B-B wires using left hand.</p></div><div></div><div><p>3. After insertion, remove the terminal cover jig using right hand.</p></div></div> <div><p>Terminal cover Jig</p></div>			1. No wrong use of parts. 2. No deformed terminal.

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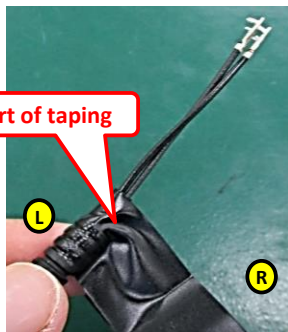
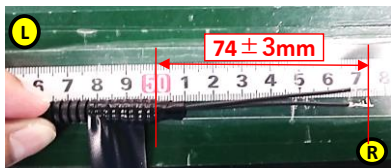
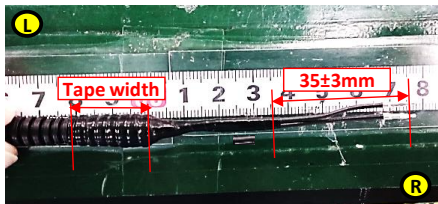

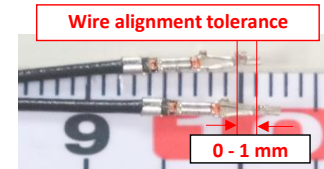
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PARTS:		1 Assy parts 2.Black tape	JIG	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
15	n/a Taping 3 Black Corrugated tube to wire near terminal	<div><p>1.Hold the COT using left hand, get the Black tape using right hand then start pre-taping using both hands.</p></div> <div><p>2.Measure from end of COT up to terminal pointed tip 74±3mm then continue the taping process using both hands.</p></div> <div><p>3.After taping, check the measurement, terminal appearance and taping condition.</p></div>	<div><p>MEASURING TAPE</p></div> <div></div>	<p>Note: <i>Please use calibrated/verified measuring tape when getting the measurement.</i></p> <ol style="list-style-type: none">1. No flip-out tape2. No peel-off tape3. No loose tape4. No missing tape5. No wrong use of tape6. No wrong dimension

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PROTOTYPE



PRE-LAUNCH



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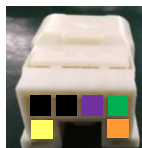


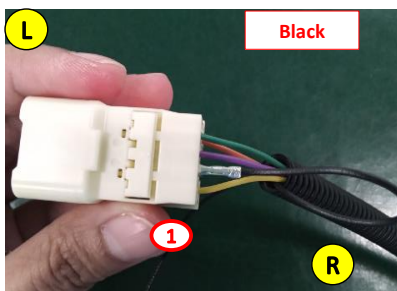
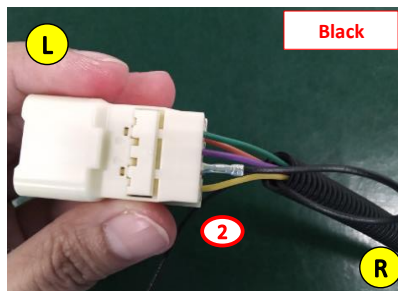
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PARTS:

1. Assy parts.
2. AVSSf 0.3 B wire L= 576±3mm

JIG

1.Connector Lock

NO.	PROCESS NAME		WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
17	n/a	Wire Insertion to Connector	<div><div>Visual Reference</div><div></div><div>Connector Setting</div><div></div><div>Wire facing</div><div></div><div><div>Black</div><div>1</div><div>R</div><div>1. Hold the connector using left hand. Get the 1st wire and insert to connector using right hand.</div></div><div><div>Black</div><div>2</div><div>R</div><div>2. Get the 2nd Black wire using left hand and insert to connector using right hand.</div></div></div> <td>n/a</td> <td><div>Note: Refer to WI-PRO-CNC-017 for Wire and Strip Tolerance</div><div><div>1. No loose insertion</div><div>2. No wrong insertion</div><div>3. One by one insertion</div><div>4. No deformed terminal</div><div>5. No wrong wire facing</div></div><div>Make sure wires are properly inserted. Conduct Pull-Push-Pull-Push after insertion</div><div>Note: Refer to GL-PRO-ASY-029 for Pull-Push procedure.</div></td>	n/a	<div>Note: Refer to WI-PRO-CNC-017 for Wire and Strip Tolerance</div> <div><div>1. No loose insertion</div><div>2. No wrong insertion</div><div>3. One by one insertion</div><div>4. No deformed terminal</div><div>5. No wrong wire facing</div></div> <div>Make sure wires are properly inserted. Conduct Pull-Push-Pull-Push after insertion</div> <div>Note: Refer to GL-PRO-ASY-029 for Pull-Push procedure.</div>

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WORK INSTRUCTION

TAPING ASSEMBLY PROCESS

Process Name/Title:

Model Code/Product Number: **200D / 7R0130-7020**

Customer: **TRJ**

Purpose: ☐ PROTOTYPE

☒ PRE-LAUNCH

☐ MASSPRO

Effectivity Date:

March 31, 2022

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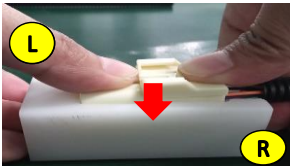
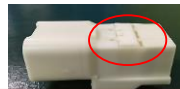

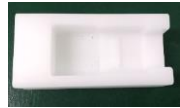
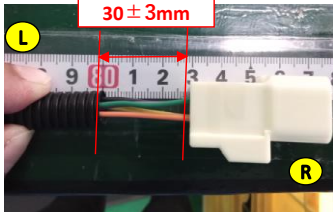
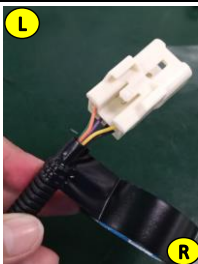
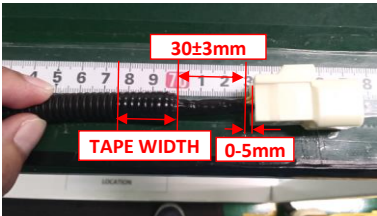

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PARTS:		1. Assy parts		JIG	1. Locking Jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
18	Connector Lock	<div></div> <div>1. Put the connector into locking jig using right hand then press 2x to lock. Touch the connector lock to confirm if properly locked. Note: Please refer to GL-PRO-ASY-017 for the verification of connector lock.</div> <div>BEFORE PRESSING</div> <div>AFTER PRESSING</div>		<div>LOCKING JIG</div> 	<div>1. Use the provided locking jig per model</div> <div>2. No unlock/half-lock connector</div> <div>NOTE: MANUAL LOCKING MAY CAUSE DAMAGED LOCK.</div>
19	n/a Taping 4 Black Corrugated tube to wire near connector	<div>1. Hold the assy parts using left hand. Get Black tape using right hand and start pre-taping.</div> <div></div> <div>2. Measure from end of vinyl tube up to end of connector 30±3mm using both hands.</div> <div></div> <div>3. After taping, check the measurement and taping condition.</div> <div></div>		<div>MEASURING TAPE</div> 	<div>Note: <i>Please use calibrated/verified measuring tape when getting the measurement.</i></div> <div>1. No flip-out tape</div> <div>2. No peel-off tape</div> <div>3. No loose tape</div> <div>4. No missing tape</div> <div>5. No wrong use of tape</div> <div>6. No wrong dimension</div>

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WORK INSTRUCTION

TAPING ASSEMBLY PROCESS

Effectivity Date:

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Process Name/Title:

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Model Code/Product Number: 200D

7R0130-7020

Customer:

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Purpose:

☐ PROTOTYPE☒ PRE-LAUNCH☐ MASSPRO

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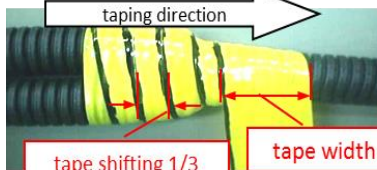

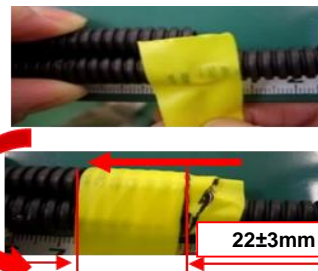
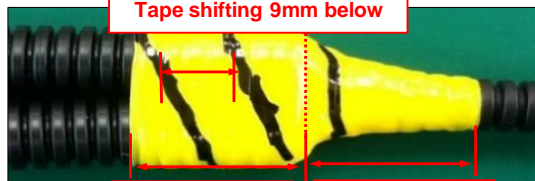

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PARTS:

1. Assy parts
2. Black tape

JIG

n/a

NO.	PROCESS NAME		WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
21	n/a	Y-Taping 2	<div><div><div>No wide interval</div><div></div><div>1. Fix the corrugated tube .</div></div><div><div>taping direction</div><div></div><div>tape shifting 1/3 below</div><div>tape width</div></div><div><div>taping direction</div><div></div><div>tape shifting 1/2</div></div><div>4.Winding the tape backward 1/2 shifting.</div></div> <div><div><div>Note: Do not exert excessive force during pulling & winding of tape</div><div></div><div>22±3mm</div></div><div>2. Start taping at the middle of combined Corrugated tubes, then winding the tape going to 2 corrugated tubes, width must be 22±3mm.</div><div>3. Winding the tape 1/3 shifting until it reach the other side of corrugated tube, width must be 20mm.</div><div><div>Tape shifting 9mm below</div><div></div><div>22±3mm</div><div>20±3mm</div></div><div>5. Winding the tape 1/2 shifting going to other side of corrugated tube then cut the tape. After taping, check the condition of tape.</div></div>	<div><div>Note: Please use calibrated/verified measuring tape when getting the measurement.</div></div> <div><div>Measuring tape</div><div></div></div>	<div><div>NOTE: USED YELLOW TAPE TO EASY VISUALIZE THE TAPE SHIFTING, BUT ACTUAL SHOULD BE BLACK.</div></div> <div><div>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</div></div>

Note: Please use calibrated/verified measuring tape when getting the measurement.



Measuring tape

NOTE: USED YELLOW TAPE TO EASY VISUALIZE THE TAPE SHIFTING, BUT ACTUAL SHOULD BE BLACK.

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

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

Effectivity Date:

March 31, 2022

Process Name/Title:

Validity Date:

n/aModel Code/Product Number: **200D / 7R0130-7020**Customer: **TRJ**

Document No.:

WI-ENG-PDE-459

Purpose:

☐ PROTOTYPE☒ PRE-LAUNCH☐ MASSPRO

Revision No.:

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17 of 20**PARTS:**

1. Assy parts
2. Clamp 82711-16830 (B)

JIG

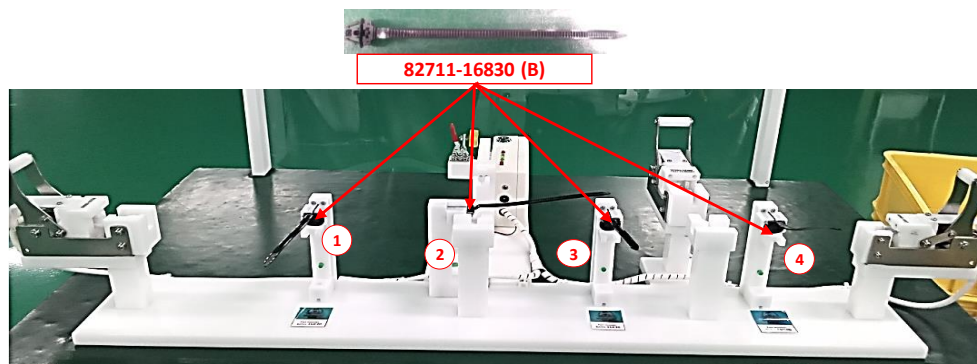
1. Clamp Assembly jig

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

22

n/a

Clamp setting



1. Get 1pc of Band clamp **82711-16830 (B)** using right hand and set to clamp location **1** using both hands.

2. Get 1pc of Band clamp **82711-16830 (B)** using right hand and set to clamp location **2** using both hands.

3. Get 1pc of Band clamp **82711-16830 (B)** using right hand and set to clamp location **3** using both hands.

4. Get 1pc of Band clamp **82711-16830 (B)** using right hand and set to clamp location **4** using both hands

Note: Please check the clamp first before start assembly to avoid wrong use of clamp.

1. No wrong use of clamp
2. No damaged clamp
3. no damaged clamp

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

Process Name/Title:

Model Code/Product Number:

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Customer:

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PROTOTYPE



PRE-LAUNCH



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1. Assy parts
2. Clamp 82711-16830 (B)

JIG

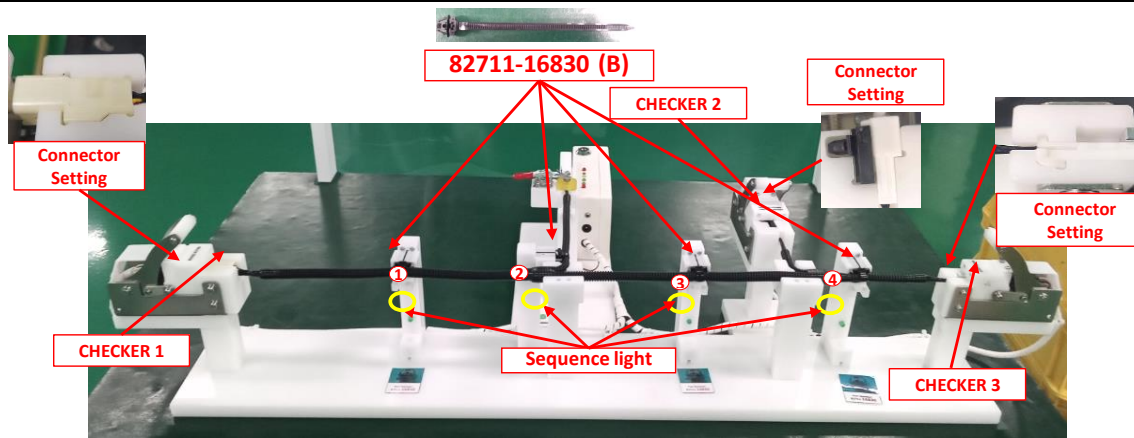
1. Clamp Assembly jig

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

23

n/a

Clamp assembly



1. Put the assy into jig. (*See above picture for the correct setting*). First, set the white connector (**7282-1060**) to **Checker 1** and lock. Second, set the next white connector (**6098-6662**) to **Checker 2** and then pull the checker fixture for continuity checking. Third, set the white connector (**6098-3802**) to **Checker 3** then pull the checker fixture for continuity checking. Continue to set the harness in jig. Last, set the **B/B wires** together within stopper then press by toggle clamp.

2. Check if LED light for **POWER**, **CLAMP**, and **SEQUENCE LIGHT** is **ON**. If encountered abnormality, **STOP** the process, **CALL** the Leader and **WAIT** for instruction

3. Initially tighten the clamp on location **1**, **2**, **3** and **4** using both hands.

1. No wrong use of clamp
2. No damaged clamp
3. no damaged clamp

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WORK INSTRUCTION

TAPING ASSEMBLY PROCESS

Process Name/Title:

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Customer: **TRJ**

Purpose: ☐ PROTOTYPE

☒ PRE-LAUNCH

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PARTS:

1. Assy parts
2. Clamp 82711-16830 (B)

JIG

1. Clamp Assembly jig

NO.

PROCESS NAME

WORK PROCEDURE/ILLUSTRATION

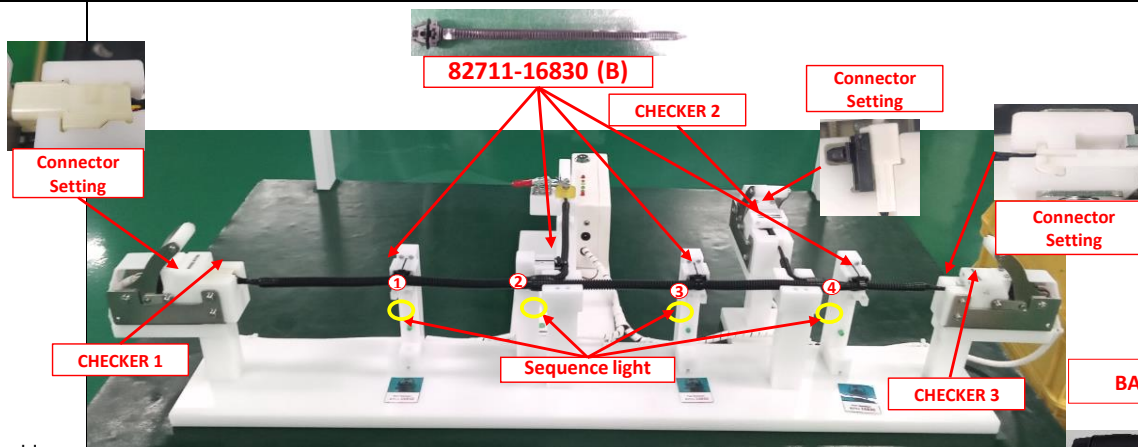
TOOLS/PPE

QUALITY POINTERS

24

n/a

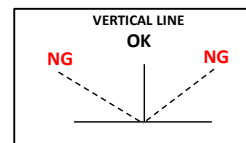
Clamp Assembly
(Continuation)



4. Get the Bando Gun using right hand and cut the band clamp on location **1** using both hands. Press the **SW button** after cutting of band clamp. Continue the process if clamp location **2** was on.

5. Cut the band clamp on clamp location **2** using both hands. Press the **SW button** after cutting of band clamp. Continue the process if clamp location **3** was on.

6. Cut the band clamp on clamp location **3** using both hands. Press the **SW button** after cutting of band clamp. Continue the process if clamp location **4** was on.



1. No wrong use of clamp
2. No damaged clamp
3. No wrong setting of bando gun
4. No loose/tight clamp attachment

Note: Setting of band clamp cutter depends on the size of the COT/Vinyl tube.
For: $\phi 5 - 1 \sim 2$, $\phi 7 - 3 \sim 4$

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WI-ENG-PDE-459Purpose: ☐ PROTOTYPE☒ PRE-LAUNCH☐ MASSPRO

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PARTS:	n/a		JIG	n/a
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
25	Visual/ By two's inspection	<div><div>1. Check the connector lock.</div><div>2. Check the clamp attachment and taping condition</div><div>3. Check the Y-taping condition.</div><div>4. Check the terminal condition. Make sure no deformed terminal.</div><div>5.Using a steel rule, check if the band cut measurement is within the required dimension (0~2mm) and should not exceed the maximum value</div><div>6. Compare to Master Sample <i>Note: Please refer to GL-PRO-ASY-007 for By Two's Inspection of Sub-Assy.</i></div></div>	<div>0-2 mm</div>	<div>MASTER SAMPLE</div> <div>MASTER</div>
26	Measurement	<div><div>MEASURING TAPE</div><div>110±3mm</div><div>165±3mm</div><div>143±3mm</div><div>185±3mm</div><div>200±3mm</div><div>221±5mm</div><div>33±2mm</div><div>155±3mm</div></div>		<div>NOTE: FOR HATSUNOMO OWARIMONO</div> <div>1. No wrong Dimension</div>

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