



WORK INSTRUCTION

Effectivity Date:

March 14, 2025

Process Name/Title:

TAPING ASSEMBLY PROCESS

Validity Date:

n/a

Model code/Part number:

241B / 17J924-7051

Customer: TRP

Car Model:

LEXUS-ES

Document No.:

WI-ENG-PDE-092C

Purpose:

☐ PROTOTYPE☐ PRE-LAUNCH☒ MASSPRO

Revision No.:

17

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PARTS:		1. Connector 4F1640-000□ (W) 2. Assy parts		JIG:	1. Insertion jig		
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS		
1	P3 <div>Connector setting to insertion jig (Assy parts) 4F1640-000□ (W)</div>	<div><div>INSERTION JIG</div><div><div>Visual reference</div><div>Lower guide</div><div>Hook</div><div>Lever</div><div>Slot</div><div>Holder</div></div><div>CONNECTOR ORIENTATION</div><div><div>Note: Check the connector before insertion.</div></div><div><div><div>1. Get the connector 4F1640-000 (W) using right hand then set to insertion jig.</div></div><div><div>2. Press the lower guide using right thumb finger.</div></div><div><div>3. Separate Group 1 (12pcs) and Group 3 wires (3pcs). Set the Group 1 wires (12pcs) to holder using both hands and set the Group 3 wires (3pcs) to hook using right hand.</div></div><div><div>4. Hold the Group 2 wires (11pcs) using right hand for insertion.</div></div></div><div><div>BEFORE PRESSING</div><div>AFTER PRESSING</div></div></div> <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></div> <div><div>Important reminders/Note/s: 1. Use the provided jig per model 2. No wrong usage of parts 3. No wrong orientation of connector during operation 4. No damaged connector 5. No half-locked connector</div><div>1. Automatically dispose and replace the unit if once encountered Bend terminal, Difficulty of insertion, Half-locked connector. 2. If encountered abnormality, STOP and immediately CALL the attention of the leader. WAIT for further instruction and continue the process. Do not attempt to repair. 3. Follow the connector orientation.</div><div><div>Connector must be no damaged/half-locked/locked</div><div><div>GOOD</div><div>UNLOCK</div></div><div><div>NG</div><div>HALF-LOCKED</div></div></div></div>					
Revision History				Prepared by	Checked by	Reviewed by	Approved by
03/14/25	17	Inclusion of Quality improvement measures (based on Mizzen Boshi activity).		D.Castillo	J. Loterte	C. Villanueva	A. Arañes
08/02/23	16	Update template; Inclusion of CAR MODEL "LEXUS-ES" . Transfer process on Connector lock from P3 to P5 due ti TPS improvements. (Refer to ENGDRR-146 for Document Revision Request).		M. Ariola	J. Loterte	C. Villanueva	A. Arañes
03/02/23	15	Standardized tube description: VM tube (Sunprene).Change WIP flow quantity from [1pc] flow to [3pcs] due to process improvement.		M. Ariola	J. Loterte	C. Villanueva	A. Arañes
Eff. Date	Rev. No	Details of Change		Revised	Checked	Reviewed	Approved
				Est. Date:	June 02, 2017		

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PARTS:

1. Assy parts

JIG:

1. Insertion jig

NO.

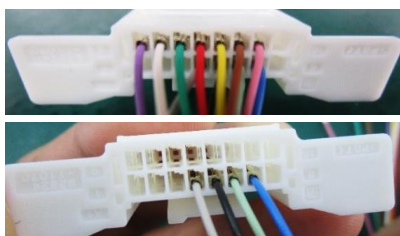
PROCESS NAME

WORK PROCEDURE/ ILLUSTRATION

TOOLS/PPE

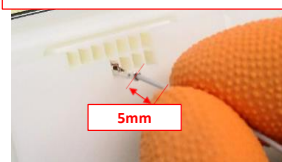
QUALITY POINTERS

WIRE INSERTION ILLUSTRATION



	5	6	7	8	9	10	11
SECOND ROW TO INSERT	V	W	G	R	Y	BR	P
	185	183	181	178	178	176	175
FIRST ROW TO INSERT				GR	B	LG	L
				179	179	176	175
				1	2	3	4

Standard hold in wire



5mm

17

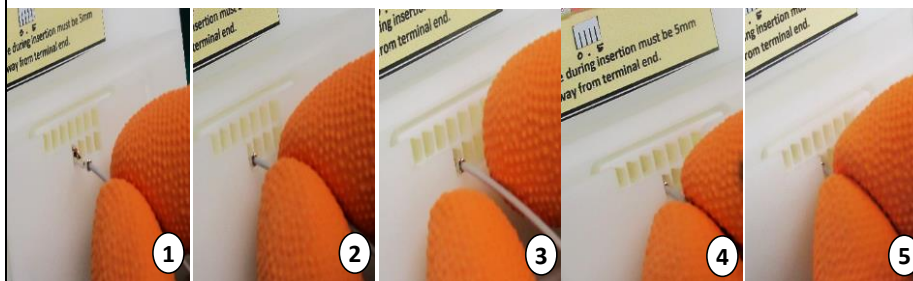
MEDIUM

2

P3

Wire insertion to connector
(Group 2 wires)
4F1640-000 (W)

TERMINAL FACING



1. Get the wire and hold it 5mm away from terminal.
2. Half insert the wire.
3. Release wire to check the color.
4. Conduct point checking in visual
5. Hold again 5mm away from terminal
6. Fully inserted wires (avoid bending during insertion)

Finger COTS



Important reminders/Note/s:

1. Automatically dispose and replace the unit if once encountered Bend terminal, Difficulty of insertion, Half-locked connector.
2. If encountered abnormality, STOP and immediately CALL the attention of the leader. WAIT for further instruction and continue the process. Do not attempt to repair.
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 visual reference
5. Hold on wire during insertion must be 5mm away from terminal end.

Document references:

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

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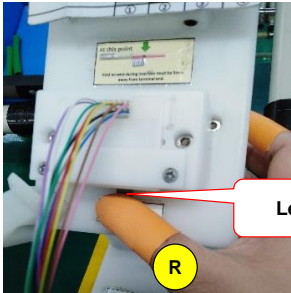
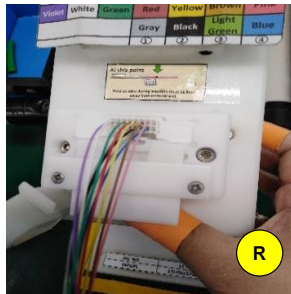




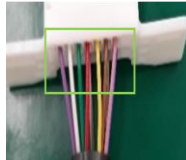
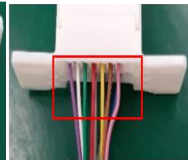
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PARTS:		1. Assy parts 2. Green VM tube (Sunprene) $\phi 7$ L=55 \pm 5mm	JIG:	1. Insertion jig
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION	TOOLS/PPE	QUALITY POINTERS
3	<div>17</div> <div>MEDIUM</div> <div>Wire insertion to Green VM tube (Sunprene) $\phi 7$ L=55\pm5mm (Continuation)</div> <div>P3</div>	<div> Lever BEFORE PRESSING</div> <div> AFTER PRESSING</div> <div>4. Press the unlock lever using right thumb.</div> <div> R</div> <div>5. Hold the wires using left hand then gently pull the connector from jig. Check the insertion condition.</div>	<div>Finger COTS</div> <div></div>	<div>1. No wrong use of parts. 2. No mixed wires between Group 1 and Group 3 3. No remaining wires outside Green VM tube (Sunprene)</div> <div>STANDARD TUBE APPEARANCE</div> <div> GOOD</div> <div> NG</div> <div>MUST BE NO CUT/DAMAGED TUBE</div> <div> GOOD</div> <div> NG</div> <div>NO BEND TERMINAL/WIRES</div>

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PARTS:	1. Assy parts			JIG:	1. WIP Holder
NO.	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	QUALITY POINTERS
4	P3 Pass WIP to P4	<div>3 PIECES FLOW</div> <div></div> <div>1. Pass WIP to WIP Holder. Note: Three pieces flow.</div>		<div>WIP HOLDER</div> <div></div>	1. No WIP overflow

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