| _         |         | _       |                         | WORK IN             | STRUCTION                 |  |             | Effectivity Date:  |                                   | October 04, 20  | 24                      |
|-----------|---------|---------|-------------------------|---------------------|---------------------------|--|-------------|--|-----------------------------------|---|-------------------------|
|           |         |         | Process Name/Title:     |                     | NG ASSEMBLY PRO           | CESS   |             | Validity Date:   |                                   | n/a   |                         |
|           |         |         | Model code/Part number: | 310D / 7N0201-7020B | Customer: TRJ             | Car Model: TOYO                                  | TA RAV4     | Document No.:  |                                   | WI-ENG-PDE-10   | 14C                     |
|           |         |         | Purpose:                | ☐ PROTOTYPE         | ☐ PRE-LAUNCH              | MASSPRO  |             | Revision No.:  | 0                                 | Page No.:   | 1 of 9                  |
| PARTS:    |         | 1. Assy | parts; Black Tape       |                     |                           |  |             | JIG:   |                                   |   |                         |
| N         | 0.      | F       | PROCESS NAME            | WORK                | PROCEDURE/ ILLUSTF        | RATION   |             | TOOLS/PPE  | QUALITY POINTERS                  |   |                         |
|           |         |         |                         |                     | Table Lay-out  Assy parts |  | 131         | Safety Instruction  Be sure to wear required personal protective equipment during operation (gloves, finger cots, etc.)        | 1. Refer<br>Offline a<br>2. Refer | ant reminders/N<br>to WI-ENG-PDE-6<br>ssembly process<br>to WI-PRO-CNC-0<br>D Length Tolerand | 775 for<br>017 for Wire |
| 1         |         | P3      | Table Lay-out           |                     |                           | Black<br>Tape/Holder                             |             | Housekeeping  1. Maintain and always practice 5's.  2. Personal things on the workplace is prohibited. Keep it in your locker. |                                   | ng parts/tools<br>s parts/tools   |                         |
|           |         |         |                         |                     |                           |  |             | Alert level For any trouble, inform the Assembly Assistant Supervisor or Line Leader for immediate corrective action.          |                                   |   |                         |
|           |         |         |                         | Davisier Lietere    |                           |  |             |  |                                   | Т   |                         |
|           | I       |         |                         | Revision History    |                           | <del>                                     </del> | <u> </u>    | Prepared by F  | Reviewed by                       | Approved by   | Noted by                |
|           |         |         |                         |                     |                           |  |             |  | 1/ <del></del>                    | AMP   |                         |
| 10/04/24  | 0       |         |                         | Initial issue.      | A. Arañes                 | Okinica Ju                                       | .Villanueva | A. Arañes  | n/a                               |   |                         |
| Eff. Date | Rev. No |         |                         | Details of Change   |                           | Revised Reviewed                                 | Approved No | oted Est. Date: Octol  | ber 04, 2024                      |   |                         |



|        |         |   | WORK IN:                           | Effectivity Date:  | October 04, 2024 |                                   |                |                       |                  |             |
|--------|---------|---|------------------------------------|--|------------------|-----------------------------------|----------------|-----------------------|------------------|-------------|
|        |         | Process Name/Title:   | TAPIN                              | NG ASSEMBLY PRO  | CESS             |                                   | Validity Date: |                       | n/a              |             |
|        |         | Model code/Part number:   | 310D / 7N0201-7020B                | Customer: TRJ  | Car Model:       | TOYOTA RAV4                       | Document No.:  |                       | WI-ENG-PDE-10    | 14C         |
|        |         | Purpose:  | PROTOTYPE                          | PRE-LAUNCH   | MASSPR           | 80                                | Revision No.:  | 0                     | Page No.:        | 2 of 9      |
| PARTS: | 1. Assy |   |                                    | 1. Insertion jig   |                  |                                   |                |                       |                  |             |
| NO.    | F       | PROCESS NAME  | WORK                               | PROCEDURE/ ILLUST  | RATION           |                                   | TOOLS/PPE      | (                     | QUALITY POIN     | TERS        |
| 2      | P3      | Connector setting to<br>insertion jig<br>6098-3802 (W)<br>(with assy parts) | INSERTION JIG ORIENTATION  Press R | CONNECTOR ORIENTATION  CONNECTOR ORIENTATION  Release the lock after the connector 6098-3802 (sertion jig. Release the lock after the connector jig. Release the lock after the connector for the connector jig. Release the lock after the connector jig. Release the lock after the connector for the connector jig. Release the lock after the connector jig. | Release          | WIRE FACING  R  and and insert to | n/a            | 6098-<br>1. Use provi | CONNECTOR ILLUST | 98-5668 (W) |

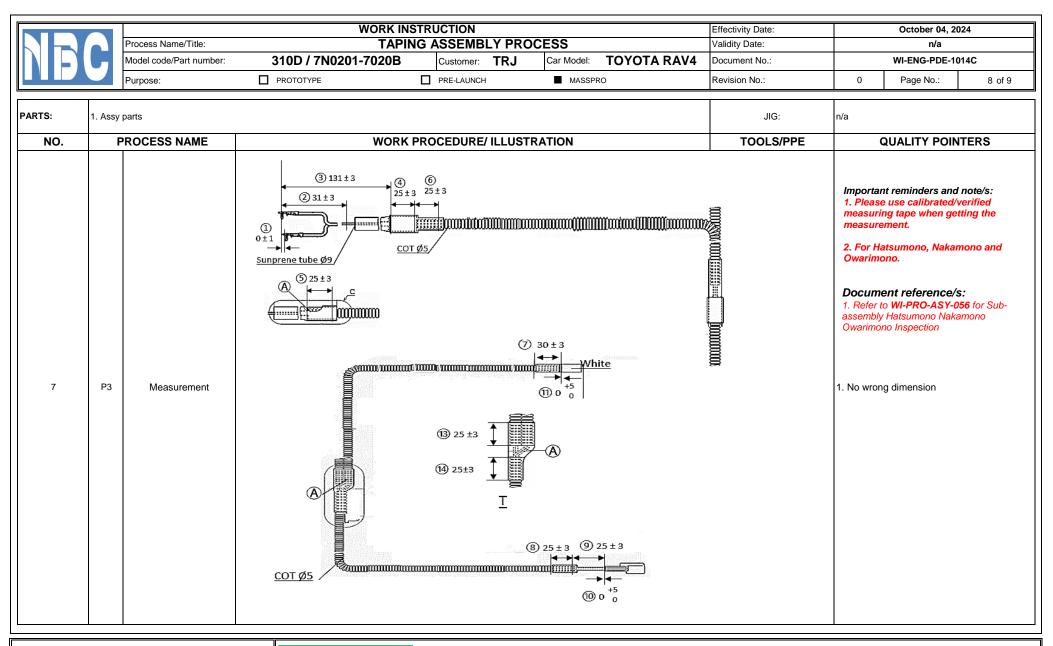
|             |    |                              | WORK INS   | STRUCTION            |   | Effectivity Date:                 |                | October 04, 20   | 124  |   |
|-------------|----|------------------------------|--|----------------------|---|-----------------------------------|----------------|--|--|---|
|             |    | Process Name/Title:          | TAPIN  | IG ASSEMBI           | LY PROCESS  |                                   | Validity Date: |  | n/a  |   |
|             |    | Model code/Part number:      | 310D / 7N0201-7020B  |                      | TRJ Car Model:  | <b>TOYOTA RAV4</b>                | Document No.:  |  | WI-ENG-PDE-10  | 14C   |
|             |    | Purpose:                     | ☐ PROTOTYPE  | PRE-LAUNCH           | MASSP   | RO                                | Revision No.:  | 0  | Page No.:  | 3 of 9                                      |
| PARTS: 1. A |    | parts                        |  |                      |   |                                   | JIG:           | 1. Insertion   | jig  |   |
| NO.         | F  | PROCESS NAME                 | WORK   | PROCEDURE/           | ILLUSTRATION  |                                   | TOOLS/PPE      | QUALITY POINTERS   |  |   |
| 3           | P3 | Wire insertion to assy parts | Connector Orientation  1. Hold the 1st Black wire and insert to slot 3 using right hand. Conduct 2x Pull-Pull-Push after insertion  3. After insertion, push the lock using lefrom jig using right hand. | re R terminal -Push- | Wire facing  2. Hold the 2nd Black w terminal slot 3 using rig Pull-Push-Pull-Push aft  L  n hold the wires and genti | th hand. Conduct 2x ter insertion |                | 4. No deformation of the second of the secon | g insertion one insertion remed terminal g wire facing reminders/Note/hold the wire neaure wires are properties of the references: | er terminal.<br>Operly<br>U <u>sh</u> after |

|        |         |                         | WORK INS   | Effectivity Date:        | October 04, 2024     |   |   |                |                           |   |              |  |
|--------|---------|-------------------------|--|--------------------------|----------------------|---|---|----------------|---------------------------|---|--------------|--|
|        |         | Process Name/Title:     | TAPIN  | IG ASSEMB                | LY PRO               | CESS  |   | Validity Date: | n/a                       |   |              |  |
|        |         | Model code/Part number: | 310D / 7N0201-7020B  | Customer:                | TRJ                  | Car Model:  | TOYOTA RAV4   | Document No.:  | WI-ENG-PDE-10             |   | )14C         |  |
|        |         | Purpose:                | PROTOTYPE  | ☐ PRE-LAUNCH             | -1                   | MASSPE  | ₹0  | Revision No.:  | 0                         | Page No.:   | 4 of 9       |  |
| PARTS: | 1. Assy | PROCESS NAME            | WORK PROCEDURE/ ILLUSTRATION   |                          |                      |   | JIG: TOOLS/PPE  | 1. Locking j   | TERS                      |   |              |  |
| 4      | P3      | Connector lock          | 1. Load the connector into the jig holding both side of the connector, tip first.  Load the connector, tip first.  Right thumb-Lower Left thumb-middle  3. Press the lower parts of connector using hand while left hand holding the middle.  Right thumb-middle  Right thumb-middle  Left thumb-middle  5. Lift then press the connector in the middle using left and right hand. | L<br>1<br>6. Ensure that | 4. Press thand while | Right thum Left thumb  he upper part of de left hand holdin | rt of connector to king jig.  2  R  nb-upper b-middle  connector using right ng the middle.  2  (R)  (R)  (R)  (R)  (R)  (R)  (R) | n/a            | 1. Use the p 2. No unlock | tant reminders/Nall locking may caused connector lock.  Drovided locking jig k/half-lock connector lock.  After lock in the locking jig k/half-lock connector lock. | per model or |  |

|        |                     |   | WORK IN                    | STRUCTION                      |                                 |   |                                   | Effectivity Date: |  | October 04, 20  | 124                 |
|--------|---------------------|---|----------------------------|--------------------------------|---------------------------------|---|-----------------------------------|-------------------|--|---|---------------------|
|        |                     | Process Name/Title:   |                            | NG ASSEMI                      | BLY PROC                        | ESS   |                                   | Validity Date:    |  | n/a   |                     |
|        |                     | Model code/Part number:                                     | 310D / 7N0201-7020B        | Customer                       |                                 | Car Model:  | TOYOTA RAV4                       | Document No.:     |  | WI-ENG-PDE-10   | 114C                |
|        |                     | Purpose:  | ☐ PROTOTYPE                | PRE-LAUNG                      | СН                              | MASSPR  | 0                                 | Revision No.:     | 0  | Page No.:   | 5 of 9              |
| PARTS: | 1. Assy<br>2. Black | parts<br>c Tape   |                            |                                |                                 |   |                                   | JIG:              | n/a  |   |                     |
| NO.    | F                   | PROCESS NAME  | WORK                       | TOOLS/PPE                      | (                               | QUALITY POIN  | TERS                              |                   |  |   |                     |
| 5      | P3                  | Taping 2<br>Black Corrugated tube<br>to wire near connector | 25±3mm<br>25±3mm<br>25±3mm | 1. Hold the assusing right har | sy parts using nd and start pro | left hand. Get e-taping.  rom COT to Conds and continue measureme | onnector 25±3mm<br>nue the taping | MEASURING TAPE    | Import  1. Pleas measus measus  1. No flip-c 2. No peel- 3. No loose 4. No miss 5. No wron | ant reminders/Nose use calibrated ring tape when grement.  out tape off tape e tape | ote/s:<br>/verified |

|        |    |                         | WORK INS  |  | Effectivity Date:   | October 04, 2024                             |  |                          |                   |        |  |
|--------|----|-------------------------|---|--|---|--|--|--------------------------|-------------------|--------|--|
|        |    | Process Name/Title:     | TAPIN   | G ASSEMBLY PRO   | CESS  |  | Validity Date:   | n/a                      |                   |        |  |
|        |    | Model code/Part number: | 310D / 7N0201-7020B                                   | Customer: TRJ  | Car Model:  | <b>TOYOTA RAV4</b>                           | Document No.:  |                          | WI-ENG-PDE-10     | 14C    |  |
|        |    | Purpose:                | ☐ PROTOTYPE   | PRE-LAUNCH   | MASSPR  | RO   | Revision No.:  | 0                        | Page No.:         | 6 of 9 |  |
| PARTS: |    |                         |   | JIG:   |   |  |  |                          |                   |        |  |
| NO.    | F  | PROCESS NAME            | WORK F  | PROCEDURE/ ILLUSTE   | RATION  |  | TOOLS/PPE  | QUALITY POINTERS         |                   |        |  |
|        |    |                         | CORRECT FACING  Upper tube  L  tape attachment  R     | 1. Fix the 3 c<br>Note: Follow   | art taping at the middle of appe on the upper tube. The ings.  Do not exert excessive to ing of tape. | combined tubes, attach<br>en make pre-tape 2 | Document reference/s:  1. Refer to WI-PRO-ASY-001C for taping procedure (special).  Important reminders/Note/s:  1. Use <u>yellow tape</u> for easy visualization of tape shifting, but actual should be <u>BLACK TAPE</u> .  2. Please use calibrated/verified measuring tape when getting the measurement.  1. No loose tape 2. No flip-out tape 3. No peel-off tape 4. No wrong use of tape |                          |                   |        |  |
| 6      | P3 | Y-taping                | taping direction  Tape shifting 1/2  Taping direction | 3. Winding the tape 1/2 shifting going to the left side.                                     | 25  | 5±3mm<br>25±3mm                              | 4. Make 2 windings, width must be 25±3mm.  | 5. No wron<br>6. No expo | g dimension-out t | ape    |  |
|        |    |                         | Tape shifting 1/3                                     | 5. Winding the tape 1/3 shifting going to the right side until reach the other side of tube. |   |  | 6. Make 2 windings, width must be 25±3mm.  |                          |                   |        |  |

|        |    |                            | WORK INSTE  | RUCTION  |                              | Effectivity Date:                                  | T   | October 04, 202   | 24                                    |
|--------|----|----------------------------|---|--|------------------------------|--|---|---|---------------------------------------|
|        |    | Process Name/Title:        | TAPING  | <b>ASSEMBLY PRO</b>                                      | CESS                         | Validity Date:                                     |   | n/a   |                                       |
|        |    | Model code/Part number:    | 310D / 7N0201-7020B   | Customer: TRJ  | Car Model: TOYOTA RAV        | 4 Document No.:                                    |   | WI-ENG-PDE-101  | 14C                                   |
|        |    | Purpose:                   | ☐ PROTOTYPE ☐   | PRE-LAUNCH   | MASSPRO                      | Revision No.:                                      | 0   | Page No.:   | 7 of 9                                |
|        |    |                            |   |  |                              |  |   |   |                                       |
| PARTS: |    |                            |   |  |                              | JIG:   |   |   |                                       |
| NO.    | I  | PROCESS NAME               | WORK PR   | OCEDURE/ ILLUST  | TOOLS/PPE                    | QUALITY POINTERS                                   |   |   |                                       |
| 6      |    |                            | taping direction  Tape shifting 1/2   | 7. Winding the tape 1/2 shifting going to the left side. | 25±3mm                       | 8. Make 2 windings, width must be 25±2mm.          | 1. Refetaping Import 1. Use visuali.  | nent reference/s: er to WI-PRO-ASY procedure (speci<br>tant reminders/No<br>yellow tape for ea<br>zation of tape shi<br>should be BLACI | ial).<br>ote/s:<br>asy<br>ifting, but |
|        | P3 | Y-taping<br>(Continuation) | Taping direction  Tape shifting 1/2  9. Winding the tape 1/2 shifting going to side until it reach the other side of tube | o the right 10. Ma                                       | 25±3mm<br>tta                | ape cutting  Then cut the tape.                    | 2. Plea<br>measu<br>measu<br>1. No loose<br>2. No flip-o<br>3. No peel-<br>4. No wron<br>5. No wron<br>6. No expo | se use calibrated ring tape when go rement.  e tape ut tape off tape g use of tape g use of tape g dimension-out ta                     | l/verified<br>etting the              |
|        |    |                            | 11. conduct proper pressing of end tape using left hand (top part).  Note: Reference only.                                | 12. conduct proper tape using left han Note: Reference   | nd (Middle part). using left | ct proper pressing of end tape hand (bottom part). |   | ± 2mm 25 =  | ± 3mm                                 |

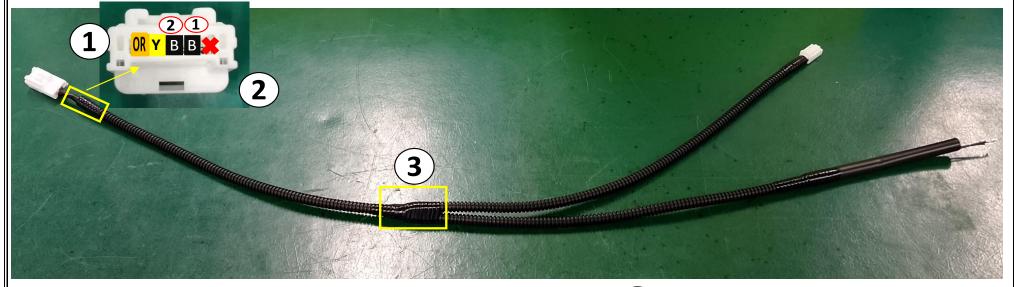


|        |     |   | Effectivity Date:   | October 04, 2024 |            |     |            |             |                |     |               |        |
|--------|-----|---|---------------------|------------------|------------|-----|------------|-------------|----------------|-----|---------------|--------|
|        |     | Process Name/Title: TAPING ASSEMBLY PROCESS |                     |                  |            |     |            |             | Validity Date: | n/a |               |        |
|        |     | Model code/Part number:                     | 310D / 7N0201-7020B | С                | Customer:  | TRJ | Car Model: | TOYOTA RAV4 | Document No.:  |     | WI-ENG-PDE-10 | 114C   |
|        |     | Purpose:                                    | ☐ PROTOTYPE         | ☐ PF             | PRE-LAUNCH |     | MASSPE     | ₹0          | Revision No.:  | 0   | Page No.:     | 9 of 9 |
|        | ı   |   |                     |                  |            |     |            |             |                |     |               |        |
| PARTS: | n/a |   |                     |                  |            |     |            |             | JIG:           | n/a |               |        |
|        | •   |   |                     |                  |            |     |            |             |                |     |               |        |

## VISUAL INSPECTION/ QUALITY CHECKPOINTS

## **TAPING - P3**

## 7N0201-7020B



- 1 No Wrong insert
- 2 No Half locked/ Unlocked Connector
- 3 No Wrong Facing of Y-Taping
- **5** No Deformed Terminal
- 6 No Terminal Backing
  Out

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