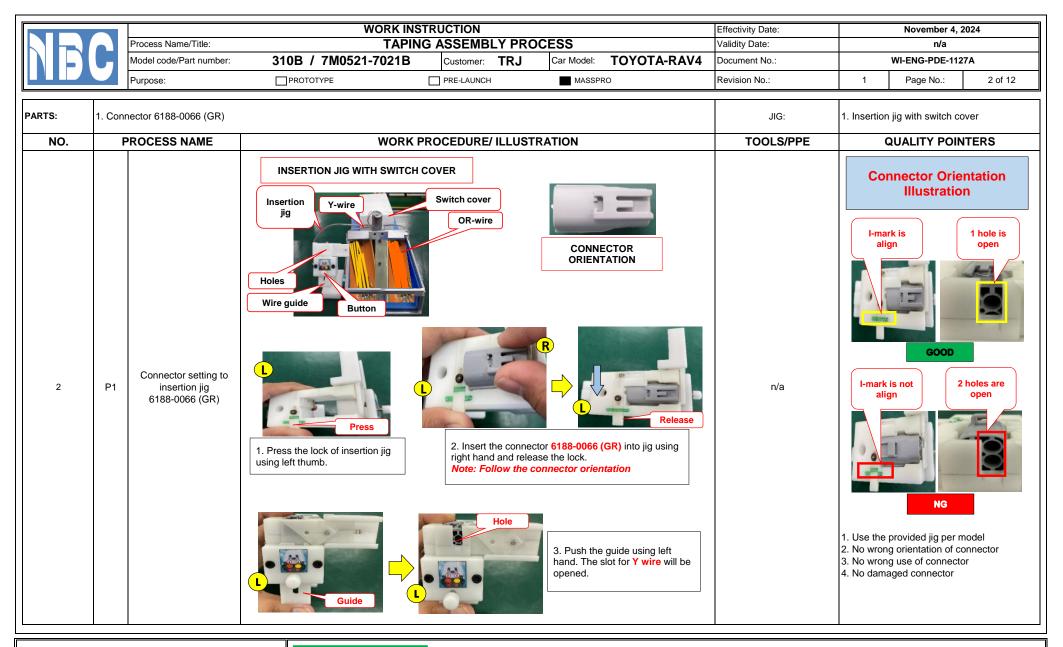
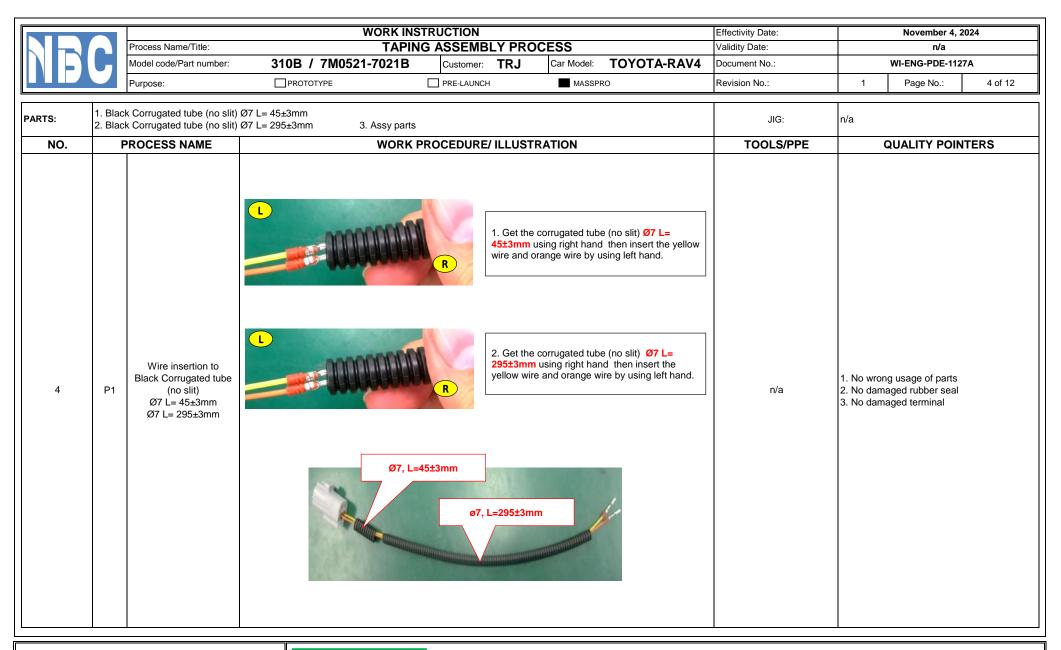
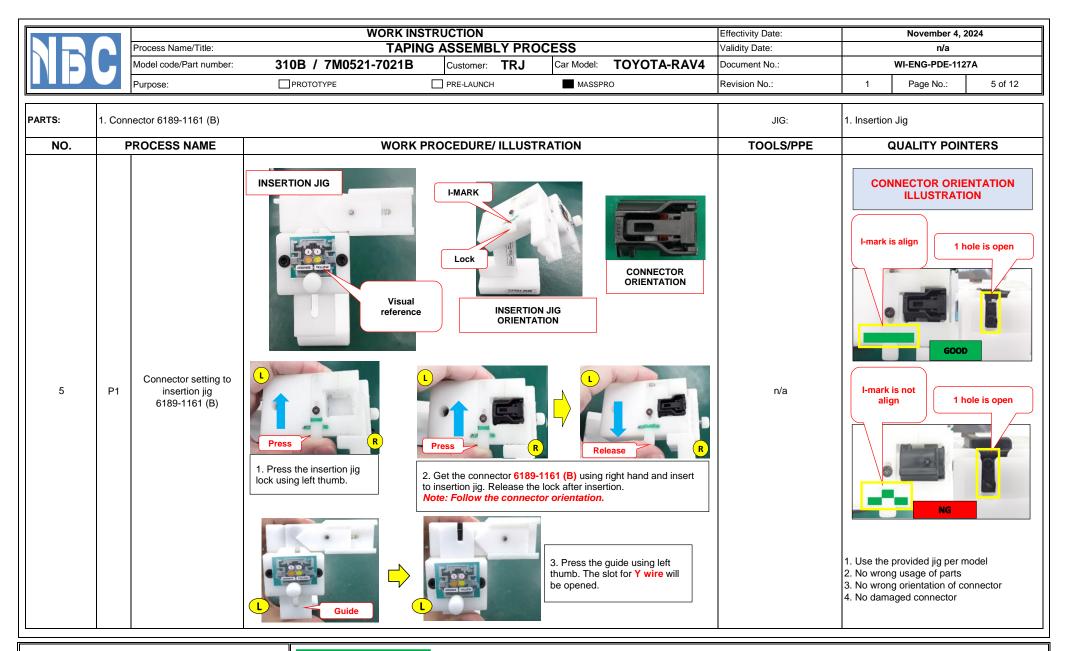
| Process NamerTrible: TAPING ASSEMBLY PROCESS Whish page 1 1 Can Model: TOYOTA-RAV4 Document No: WHAN-PBE-19727A Purpose: Processed (CR); Bilder Corrugated table (no all) (27 L 4-85-biller). Bilder Corrugated table (no all) (27 L 4-85-biller). Can Writer Left-Sachimi, NASSI 0.3 Y/OR wire Left-Sachimi, Left-Sac | | | | | WORK IN | ISTRUCTION | | | Effectivity Date: | | November 4, 2 | 024 |
|--|-----------|---------|--------|------------------------------------|--|--|----------------------------------|--|---|-------------------|---|----------------|
| Purpose: PROTOTIVE PRELADICH PRELADICH PRELADICH Program Preceded Process Proces | | | | Process Name/Title: | TAPI | NG ASSEMBLY PRO | CESS | | Validity Date: | | n/a | |
| 1 Connector 6188-0066 (SR); Black Corrugated tube (no sit) 87 L= 45±3mm; Black Corrugated tube (no sit) 87 L= 25±3mm; Connector 6189-1161 (B); Black Corrugated tube (no sit) 97 L= 45±3mm; MSW CP TVSS (0.3 G-BW wires L=658±3mm; AVSS (0.3 Y/OR wire 5189-1161 (B); Black Corrugated tube (no sit) 97 L=469±4mm; MRSW CP TVSS (0.3 G-BW wires L=658±3mm; AVSS (0.3 Y/OR wire 5189-1161 (B)) TABLE LAY-OUT Black Corrugated tube (no sit) 97 L= 45±3mm; Black Corrugated tube (no sit) 97 L= 45±3mm; AVSS (0.3 Y/OR wire 5189-1161 (B)) TABLE LAY-OUT Black Corrugated tube (no sit) 97 L= 45±3mm; AVSS (0.3 Y/OR wire 5189-1161 (B)) AVSS (0.3 Y/OR wire 5189-1161 (B)) TABLE LAY-OUT Black Corrugated tube (no sit) 97 L= 45±3mm; AVSS (0.3 Y/OR wire 5189-1161 (B)) AVSS (0.3 Y/OR wire 5189-1161 (B)) | | | | Model code/Part number: | 310B / 7M0521-7021B | Customer: TRJ | Car Model: | TOYOTA-RAV4 | Document No.: | | WI-ENG-PDE-112 | 7A |
| PARTS: 5189-1161 (B), Black Corrugated tube (no sit) 97 L=460±4mm; MRSW CP TVSS1 0.3 G-BW wires L=656±3mm, AVSS1 0.3 V/OR wire 3, Locking Jig 2, Terminal Cover Jig 3, Locking Jig 3, L | | | | Purpose: | PROTOTYPE | PRE-LAUNCH | MASSPI | RO | Revision No.: | 1 | Page No.: | 1 of 12 |
| Black Corrugated tube (no siti) 97 L 4553mm Connector (978-0006 (GRV) | PARTS: | | 6189-1 | 161 (B); Black Corrugated | ack Corrugated tube (no slit) Ø7 L= 45± tube (no slit) Ø7 L=460±4mm; MRSW | 3mm; Black Corrugated tube CP TVSSf 0.3 G-B/W wires I | (no slit) Ø7 L= .=658±3mm; A\ | 295±3mm; Connector VSSf 0.3 Y/OR wire | JIG: | 2. Termina | l Cover Jig | ver |
| Document reference/s: Safety Instruction Black Corrugated tube (no sith) 67 L Safety in Struction Connector Saster to W-PRO-CMC-017 for Wire and Strip Longth Tolerance Safety in Struction Connector Safety in Struction Safety in S | N | 0. | P | ROCESS NAME | WORK | PROCEDURE/ ILLUST | RATION | | TOOLS/PPE | | | TERS |
| 11/04/24 1 Change Purpose from Pre-launch to Masspro. M. Ariola C. Villanueva A. Arañes n/a | 1 | 1 | P1 | Table Lay-out | Connector 6188-0066 (GR)/ Connector Tray AVSSf 0.3 Y/OR wire L=396±2mm Insertion Jig A with flip cover | Termi MRSW CP TVSSf 0.3 G | B tut | Connector 6189-1161 (B) Black Corrugated tube (no slit) Ø7 L=460±4mm Black tape/tape | Be sure to wear prescribed 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 | 1. Refer Wire and | to WI-PRO-CNC-0 I Strip Length Tole | 017 for |
| 10/30/24 0 Initial issue. M. Ariola C. Villanueva A. Arañes n/a M. Ariola C. Villanueva A. Arañes n/a M. Ariola C. Villanueva A. Arañes n/a | | | | | Revision History | | | | Prepared by | Reviewed by | Approved by | Noted by |
| 10/30/24 0 Initial issue. M. Ariola C. Villanueva A. Arañes n/a M. Ariola C. Villanueva A. Arañes n/a | | | | | | | | | | | | |
| 10/30/24 0 Initial issue. M. Ariola C. Villanueva A. Arañes n/a M. Ariola C. Villanueva A. Arañes n/a | 44/04/04 | 4 | Change | Ournoso from Pro Journal to Manage | 200 | | M A-:-1- | 2 Villanua (a. A | | . / / | 1 (ass) | |
| | | 0 | | | no. | | | | (Minney | /out/)/form | A. Arañes | n/a |
| | Eff. Date | Rev. No | | | Details of Change | | 1 1 | 1 1 | 1 1 1 | | | |
| | | | | | | | | | | | | |



| | _ | | WORK INS | RUCTION | | | | Effectivity Date: | | November 4, 2 | 024 |
|--------|--------|--|---|------------|---|-----------------|---|-------------------|--|---|--|
| | | Process Name/Title: | | G ASSEMB | LY PRO | CESS | | Validity Date: | | n/a | |
| | | Model code/Part number: | 310B / 7M0521-7021B | Customer: | | Car Model: | TOYOTA-RAV4 | Document No.: | | WI-ENG-PDE-112 | 7A |
| | | Purpose: | PROTOTYPE | PRE-LAUNCH | Н | MASSPE | RO | Revision No.: | 1 | Page No.: | 3 of 12 |
| PARTS: | 1. AVS | Sf 0.3 Y/OR wire L=396±2 | 2mm | | | | | JIG: | 1. Insertior | n jig with switch co | ver |
| NO. | F | ROCESS NAME | WORK P | ROCEDURE | / ILLUSTF | RATION | | TOOLS/PPE | QUALITY POINTERS | | |
| 3 | P1 | Wire insertion to connector 6188-0066 (GR) | 1. Get the Y wire then insert to termina 1 using right hand. 2 Orange R 3. Get the OR wire then insert to termina 2 using right hand. | | 2. Press the OR wire volume of the A. After in thumb an | will be opened. | right thumb. Slot for he lock using left ewires and gently pull ig using right hand. | n/a | 4. No defo 5. No wron Importa 1. Please during in 2. Make inserted. Conduct insertion. Do not ex Docume 1. Refer t Wire and | ing insertion one insertion one insertion one insertion or insertion or insertion or insertion or insertion. In treminders/Note hold the wire new insertion. In the wire are properties are properties or insertion. In the wire are properties or insertion or insertion. In the wire are properties or insertion or insertion. In the wire are properties or insertion or | par terminal operly Push after 017 for erance. |





| | | | WORK INS | STRUCTION | 4 | | | Effectivity Date: | | November 4, 2 | 2024 |
|--------|---------|---|---|-----------------|-------------------------|--|---|-------------------|--|--|---|
| | | Process Name/Title: | TAPIN | G ASSEN | IBLY PRO | CESS | | Validity Date: | | n/a | |
| | | Model code/Part number: | 310B / 7M0521-7021B | | er: TRJ | Car Model: | TOYOTA-RAV4 | Document No.: | | WI-ENG-PDE-112 | 7A |
| | | Purpose: | PROTOTYPE | PRE-LAUI | NCH | MASSPI | RO | Revision No.: | 1 | Page No.: | 6 of 12 |
| PARTS: | 1. Assy | <i>y</i> parts | | | | | | JIG: | 1. Insertion 2. Locking | | |
| NO. | F | PROCESS NAME | WORK | PROCEDU | RE/ ILLUST | RATION | | TOOLS/PPE | | QUALITY POIN | ITERS |
| 6 | P1 | Wire insertion to connector 6189-1161 (B) | 1. Hold the insertion jig using left hand. wire and insert to connector using right 1. Orange wire R 2. Orange wire R 3. Get the OR wire and insert to connector using right hand. | Get the Y hand. | 4. After ins and then h | ess the button us or OR wire will be sertion, push the | Press e lock using left thumb and gently pull out the | n/a | 2. No wror 3. One by 4. No defo 5. No wror Importa 1. Please during ins 2. Make s inserted. Conduct insertion. Do not es Docum 1. Refer Wire and 2. Refer | sure wires are prop Pull-Push-Pull-Pu | r terminal perly ush after 17 for rance. |
| 7 | | Connector Lock | 1. Put the connector into locking jig using right hand then press 2x using both hands. Check the connector if properly locked. | | E PRESSING R PRESSING | NG Unlock Condition | NG GOOD Half Lock Condition Full Lock Condition | LOCKING JIG | 2. No unlo | provided locking j ck/half-locked con nt reminders/N locking may cause lock. | ote/s: |

| | | | WORK INS | STRUCTION | | | Effectivity Date: | | November 4, 20 |)24 |
|--------|--------|---|--------------------------------|---------------------------------|--|-----------------------|-------------------|---|--|----------------|
| | | Process Name/Title: | | NG ASSEMBLY | | | Validity Date: | | n/a | |
| | | Model code/Part number: | 310B / 7M0521-7021B | Customer: T | 'RJ Car Model: | TOYOTA-RAV4 | Document No.: | | WI-ENG-PDE-1127 | 'A |
| | | Purpose: | PROTOTYPE | PRE-LAUNCH | MASSPR | 80 | Revision No.: | 1 | Page No.: | 7 of 12 |
| PARTS: | 1. Ass | / parts k tape | | | | | JIG: | n/a | | |
| NO. | ı | PROCESS NAME | WORK | PROCEDURE/ IL | LUSTRATION | | TOOLS/PPE | (| QUALITY POIN | ΓERS |
| 8 | P1 | Taping 1 Black Corrugated tube to wire near connector | Start of taping 28±3mm | 1. Hold the make 2 wi of COT an | e corrugated tube using indings of pre-taping a nd wire using right hand 2. Measure from end of up to connector 28±3m taping process. | f the corrugated tube | MEASURING TAPE | Importal 1. Please measuring measuren 1. No flip-c 2. No peel 3. No loose 4. No miss 5. No wron | nt reminders/No use calibrated/veri use tape when getting tent. out tape off tape e tape | ote/s: fied |
| | | | 20±3mm Note: 3~8n → End tap | 4 5 6 7 R | 3. After taping, check and tape condition. | k the measurement | | | | |



| | | | WORK INSTRU | JCTION | | | | Effectivity Date: | | November 4, 2 | 024 |
|--------|-------------------|--|---|--------------|-----------------------------|--|---|-----------------------|------------|--|-----------------|
| | | Process Name/Title: | TAPING A | SSEMBLY | PROCE | SS | | Validity Date: | | n/a | |
| | | Model code/Part number: | 310B / 7M0521-7021B | Customer: TI | 'RJ | Car Model: | TOYOTA-RAV4 | Document No.: | | WI-ENG-PDE-1127 | 7A |
| | | Purpose: | ☐ PROTOTYPE ☐ | PRE-LAUNCH | | MASSPR | 0 | Revision No.: | 1 | Page No.: | 8 of 12 |
| PARTS: | 1. Blac 2. MRS | k Corrugated tube (no slit) SW CP TVSSf 0.3 G-B/W w | Ø7 L=460±4mm vires L=658±3mm 3. Assy parts | | | | | JIG: | 1. Termina | l Cover Jig | |
| NO. | F | PROCESS NAME | WORK PRO | CEDURE/ ILI | LUSTRAT | TION | | TOOLS/PPE | (| QUALITY POIN | TERS |
| 9 | | Wire insertion to Black Corrugated tube Ø7 L=460±4mm | | R thus | nen insert to sing right ha | o both termin and. orrugated tub and then ins | jig using right hand als (G-B/W wires) e Ø7, L=460±4mm ert the G-B/W wires | TERMINAL COVER JIG | | | |
| 10 | P1 | Wire insertion to Assy parts | Ø7 L=295±3mm Ø7 L= 45±3mm | 1. ha | and then instand. | sert the G-B | 5±3mm using left W wires using right the cover jig | | 2. No dama | g usage of parts aged rubber seal sed rubber seal di | uring insertion |

| | | | WORK INS | TRUCTION | | | Effectivity Date: | | November 4, 20 | 024 |
|--------|---------|---|--|------------------|----------------------------|---|-------------------|--|-----------------|--|
| | | Process Name/Title: | TAPIN | G ASSEMBLY PRO | CESS | | Validity Date: | | n/a | |
| | | Model code/Part number: | 310B / 7M0521-7021B | Customer: TRJ | Car Model: | TOYOTA-RAV4 | Document No.: | | WI-ENG-PDE-1127 | Ά |
| | | Purpose: | PROTOTYPE | PRE-LAUNCH | MASSPE | RO | Revision No.: | 1 | Page No.: | 9 of 12 |
| PARTS: | 1. Assy | / parts | | | | | JIG: | 1. Insertion | n Jig | |
| NO. | F | PROCESS NAME | WORK P | ROCEDURE/ ILLUST | RATION | | TOOLS/PPE | | QUALITY POIN | ΓERS |
| 11 | P1 | Connector setting to insertion jig (Assy parts) 6188-0066 (GR) | INSERTION JIG I-MARK Lock Lock Press 2. Press the lock of insertion jig using left thumb. | | R L L C 188-0066 (Gillock. | ide lock using left les for G wire will be Release | n/a | I-mark ali 1. Use the 2. No wror 3. No wror | GOOD | 1 hole is open 2 holes are open odel nnector |

| | | | WORK INS | TRUCTION | | | Effectivity Date: | | November 4, 20 |)24 |
|--------|---------|--|--|------------------------------|--|---|-------------------|--|---|-----------------------------------|
| | | Process Name/Title: | TAPIN | G ASSEMBLY PR | ROCESS | | Validity Date: | | n/a | |
| | | Model code/Part number: | 310B / 7M0521-7021B | Customer: TRJ | Car Model: | TOYOTA-RAV4 | Document No.: | | WI-ENG-PDE-1127 | A |
| | | Purpose: | PROTOTYPE | PRE-LAUNCH | MASSPE | RO | Revision No.: | 1 | Page No.: | 10 of 12 |
| PARTS: | 1. Assy | parts | | | | | JIG: | Insertion Locking | ı jig jig | |
| NO. | Р | ROCESS NAME | WORK F | PROCEDURE/ ILLUS | STRATION | | TOOLS/PPE | (| QUALITY POINT | TERS |
| 12 | P1 | Wire insertion to connector 6188-0066 (GR) | 1. Hold the G wire then insert to termin slot ① using right hand. 2 B/W wire 3. Hold the B/W wire then insert to terminal slot ② using right hand. | 4. After inset then hold the | r insertion of G wir right thumb. The sled. | re press the button of for B/W wire will be | n/a | 4. No deforms 5. No wron Importal 1. Please during instead. 2. Make strinserted. Conduct Einsertion. Do not exceed Docume 1. Refer to Wire and S. 2. Refer to | g insertion one insertion rmed terminal g wire facing nt reminders/Nothbot the wire near whole whole the wire near whole who | terminal erly sh after 7 for nce. |

| | | | WORK IN | STRUCTION | | | Effectivity Date: | | November 4, 2 | :024 |
|---|----|-------------------------|---|--------------------------------|-------------------------|-------------------|-------------------|---------------------------------|---|------------|
| | | Process Name/Title: | | | ESS | | Validity Date: | | n/a | |
| | | Model code/Part number: | 310B / 7M0521-7021B | Customer: TRJ | Car Model: TOYO | TA-RAV4 | Document No.: | | WI-ENG-PDE-112 | 7A |
| | | Purpose: | PROTOTYPE | PRE-LAUNCH | MASSPRO | | Revision No.: | 1 | Page No.: | 11 of 12 |
| Model code/Part number: 310B / 7M0521-7021B Customer: TRJ Car Model: TOYOTA-RAV4 Document No.: WI-ENG-PDE-1127A | | | | | | | | | | |
| NO. | F | PROCESS NAME | WORK | PROCEDURE/ ILLUSTR | ATION | | TOOLS/PPE | G | QUALITY POIN | TERS |
| 13 | P1 | Connector Lock | 1. Put the connector into locking iig then press 2x using right hand. | of ore pressing After pressing | NG NG Unlock Half Lock | GOOD Full Lock | | 1. Manual connector 1. Use the | I locking may caus r lock. provided jig per m | se damaged |

| NBC | Process Name/Title: | TAPIN | TRUCTION IG ASSEMBLY PRO | | | Effectivity Date: Validity Date: | | November 4, 2 n/a | |
|--------------|----------------------------------|----------------------------------|---------------------------|------------|-------------|----------------------------------|--------|--------------------------|----------|
| NBU | Model code/Part number: Purpose: | 310B / 7M0521-7021B □ PROTOTYPE | Customer: TRJ | Car Model: | TOYOTA-RAV4 | Document No.: Revision No.: | 1 | WI-ENG-PDE-112 Page No.: | 12 of 12 |
| ARTS: 1. Ass | y parts | | | | | JIG: | n/a | | |
| | | VIS | BUAL INSPECTION/ Q | UALITY CHE | CKPOINTS | | 1 | | |
| TAP | ING - | P1 | 7 | M0 | 521- | 7021 | В | | |
| OR | | | | | 1 2 | No Unic | tor | | ed |
| 3 B | | 6 | | | 5 | (4) No W No Defor | | | ıl |
| 1 | 6 | 6 | | 4 | | No Termi Out | nal Ba | cking | |
| | | | 2 | OR OR | 6 |) No Miss | sing C | ОТ | |