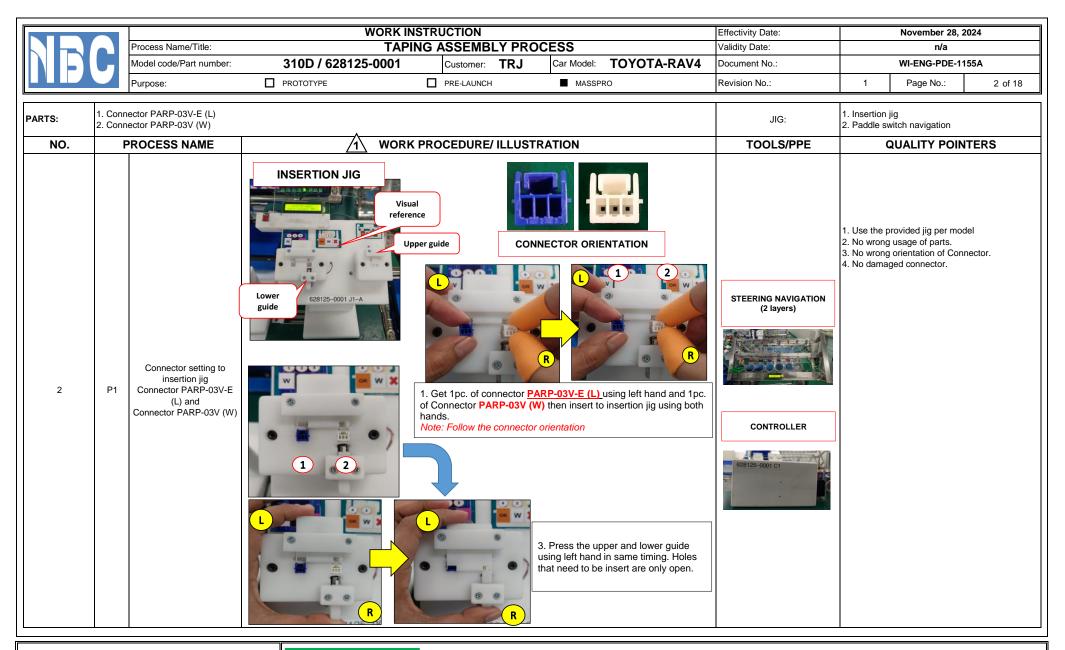
				WC	ORK INSTRUCTION			Effe	ctivity Date:		November 28, 2	2024
			Process Name/Title:		TAPING ASSEMBLY PROC	ESS		Vali	dity Date:		n/a	
			Model code/Part number:	310D / 628125-0	001 Customer: TRJ	Car Model:	TOYOTA-RAV	'4 Doo	ument No.:		WI-ENG-PDE-11	55A
			Purpose:	☐ PROTOTYPE	PRE-LAUNCH	■ MASSPR	0	Rev	ision No.:	1	Page No.:	1 of 18
PARTS:		(Sunpren	e) Ø4.5, L=291±4mm; Black V	M tube (Sunprene) Ø4, L=56±3mm; Re	-399±2mm; AVSS 0.3 P-B wires L=412±2mm; etainer (PMS-03V-S (W); AVSS 0.3 G-W/G-B ck VM tube (Sunprene) Ø6, L=84±3mm				JIG:	1. Insertion 2. Paddle s	jig witch navigation	
N	o.	P	ROCESS NAME	/ 1\ '	WORK PROCEDURE/ ILLUSTRA	ATION			TOOLS/PPE		QUALITY POIN	TERS
	1	P1	Table lay-out	Connector 4A1330-0000 (W)/Box	TABLE LAY-OUT Black VM tube (Sunprene) Ø6, L=84±3mm/ Box Green VM tube (Sunprene)	Black VM tul (Sunprene) & L=56±3mm	ector Rei 04V-S (PMS	1 1 1 tt	Safety Instruction Be sure to wear prescribed person protective equipmed during operation (gloves, finger cottect) Housekeeping Maintain and alway practice 5's. Personal things of the workplace is prohibited. Keep it your locker. Alert level for any trouble, inforce Assembly Assist Supervisor or Line. eader for immedia corrective action.	al a	t Pull-Push-Pull-l	ear terminal. roperly Push after -029 for Pull- -017 for
				Revisio	n History			l	Prepared by	Reviewed by	Approved by	Noted by
11/28/24	1		Purpose from Pre-launch to Mass I table lay-out.	oro. Update the Work Procedure/illustratio	on, provide insertion jigs and Steering Navigation	; M. Ariola C.	Villanueva A.Arañes	n/a	Muly	Nout Tilloum	AND	
11/15/24	0	Initial issu	ue.			M. Ariola C.	Villanueva A.Arañes	n/a	M. Ariola	C. Villanueva	A ATSTES	n/a
Eff. Date	Rev. No			Details of Change			Reviewed Approved	Noted	Est. Date:	November 15, 2024	A.Aldilos	11/4
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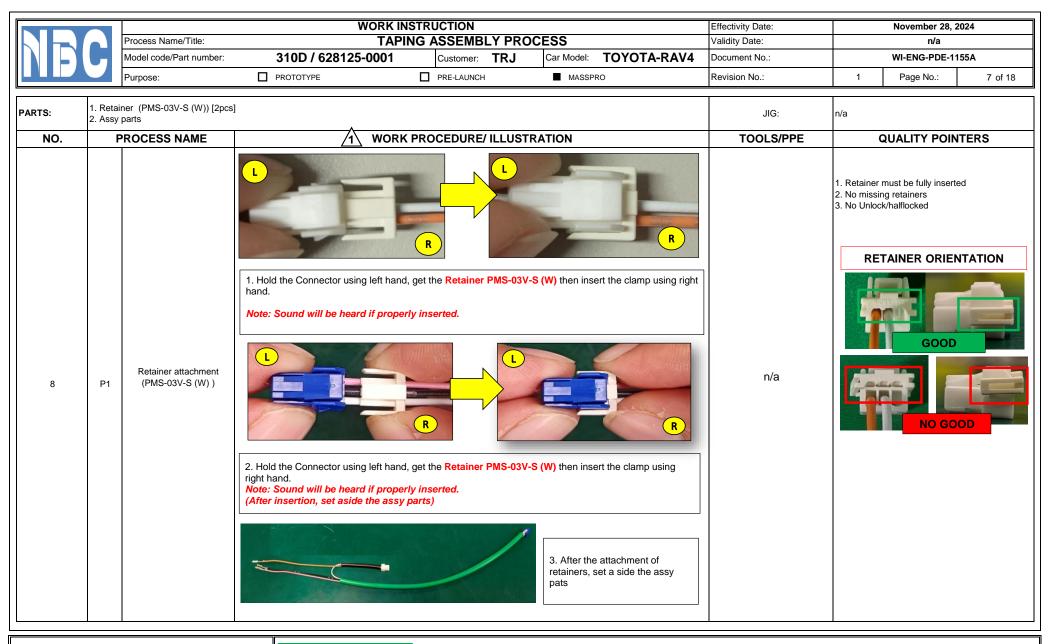


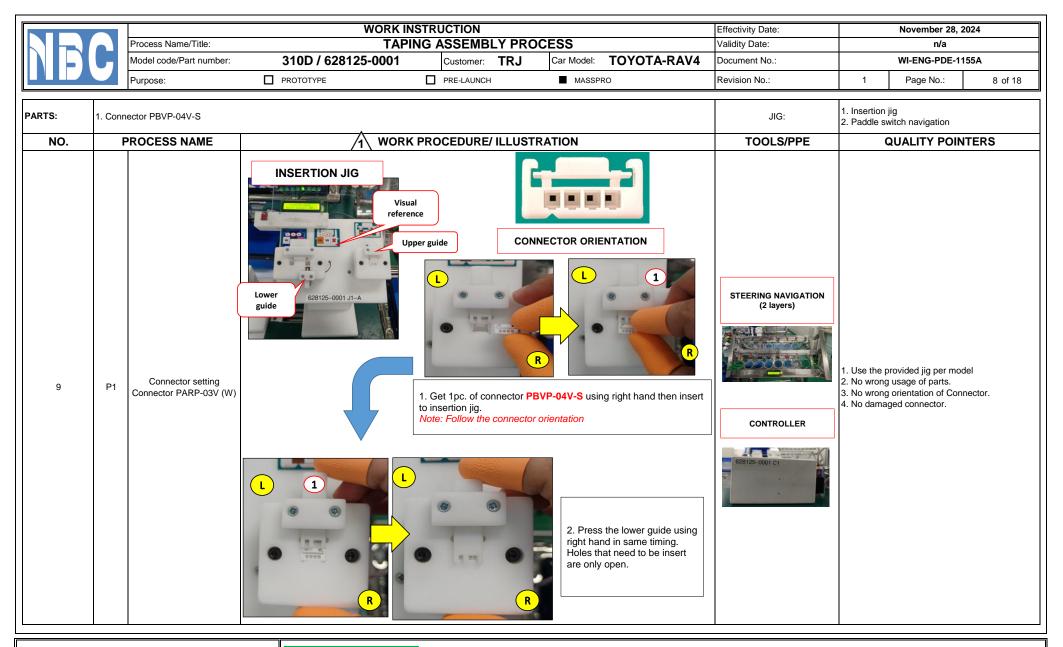
			WORK IN		Effectivity Date:		November 28, 2	2024		
		Process Name/Title:	TAP	ING ASSEMBLY PI	ROCESS		Validity Date:		n/a	
		Model code/Part number:	310D / 628125-0001	Customer: TRJ	Car Model:	TOYOTA-RAV4	Document No.:		WI-ENG-PDE-11	155A
		Purpose:	☐ PROTOTYPE	☐ PRE-LAUNCH	■ MASSP	PRO	Revision No.:	1	Page No.:	3 of 18
PARTS:		6 0.3 W wire L=399±2mm 6 0.3 P-B wires L=412±2mm					JIG:	Insertion Paddle st	jig witch navigation	
NO.	F	PROCESS NAME	∕1\ WORF	K PROCEDURE/ ILLU	STRATION		TOOLS/PPE	(QUALITY POIN	ITERS
3	P1	Wire insertion to Connector PARP-03V (W)	INSERTION SEQUENCE FR TO RIGHT 1 2 3 W B P 1. Get the W wire using left hand a push pull after wire insertion. Repeat Note: Follow the insertion sequent	WIRE INS 1 P 412 and transfer to the right hat the process to B and Pi	B 412 L L L L L L L L L L L L L L L L L L L	3 W 399	STEERING NAVIGATION (2 layers) CONTROLLER	1. Use pro 2. No wron 3. One by 4.No wron 5. No defo 6. No stuci Importa 1. Pleas 2. Make inserted Conduct insertion Do not e 3. Autor the unit termina half-loca 4. Insert to right. Docume 1. Refer 2. Refer Steering procedur	vided jig per mode ig usage of parts one insertion g insertion. If the insertion is the insertion insertion is the insertion insertion insertion is the insertion insertio	te/s: lear terminal. properly Push after e and replace ered bend ertion and st be from left

			WORK INS	TRUCTION		Effectivity Date:	T	November 28, 20	24
		Process Name/Title:	TAPIN	IG ASSEMBLY PRO	CESS	Validity Date:		n/a	
		Model code/Part number:	310D / 628125-0001	Customer: TRJ	Car Model: TOYOTA-RAV	Document No.:		WI-ENG-PDE-115	5A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	■ MASSPRO	Revision No.:	1	Page No.:	4 of 18
PARTS:	1. Assy 2. Green 3. Conn	parts n VM tube (Sunprene) Ø4.5, ector PARP-03V (W)	L=291±4mm			JIG:	Insertion j Paddle sv	iig vitch navigation	
NO.	F	PROCESS NAME	∕ı\ work i	PROCEDURE/ ILLUSTF	RATION	TOOLS/PPE		QUALITY POINT	ERS
4		Wire insertion to Green VM tube (Sunprene) Ø4.5, L=291±4mm	L R		1. Hold the wires using left hand, get the Green VM tube (Sunprene) Ø4.5, L=291±4mm using right hand then insert the wires using left hands	n/a		g usage of parts. med terminal. ed wires.	
5	P1	Wire insertion to Connector PARP-03V (W)	INSERTION SEQUENCE FROM LEFT TO RIGHT	WIRE INS 1 OR 177	ERTION ILLUSTRATION A right hand then insert to ush pull after wire insertion. Note:	STEERING NAVIGATION (2 layers) CONTROLLER	2. No wrong 3. One by c 4. No wrong 5. No defor 6. No stuck Important 1. Please 2. Make si inserted. Conduct I insertion. Do not ex 3. Automa the unit if terminal, I locked co 4. Insertio right. Documen 1. Refer to 2. Refer to Steering I procedure	med terminal to ferminal tip. reminders/Note/s hold the wire near ure wires are prop Pull-Push-Pull-Pus ert extra force. atically dispose ar once encountere difficulty of insert nnector. on of wires must b t references: o WI-PRO-CNC-01 o WI-PRO-PDE-04 Navigation Contro e. o GL-PRO-ASY-02	r terminal. perly sh after nd replace d bend ion and half- e from left to 7 4 for the ller

			WORKI	NSTRUCTION		Effectivity Date:		November 28, 20)24
		Process Name/Title:	TAP	PING ASSEMBLY PROC	CESS	Validity Date:		n/a	
		Model code/Part number:	310D / 628125-0001	Customer: TRJ	Car Model: TOYOTA-RAV4	Document No.:		WI-ENG-PDE-11	i5A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	■ MASSPRO	Revision No.:	1	Page No.:	5 of 18
PARTS:	1. Assy 2. Black 3. Conr	parts v VM tube (Sunprene) Ø4, L=	56±3mm			JIG:	Insertion Paddle sv	iig vitch navigation	
NO.		PROCESS NAME	1 WOR	K PROCEDURE/ ILLUSTR	ATION	TOOLS/PPE	(QUALITY POINT	rers
6	P1	Wire insertion to Black VM tube (Sunprene) Ø4, L=56±3mm	2. Press the upper and lower button using right hand. After removal of ha Note: Second connector with inseign.	arness, Press the Upper guide u	1st Connector with inserted wires sing left hand.	n/a		g usage of parts. med terminal. ed wires.	

			WORK IN	NSTRUCTION		Effectivity Date:	T	November 28, 20	24
		Process Name/Title:	TAPI	ING ASSEMBLY P	ROCESS	Validity Date:		n/a	
		Model code/Part number:	310D / 628125-0001	Customer: TR	J Car Model: TOYOTA-RAV4	Document No.:		WI-ENG-PDE-115	5A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	6 of 18
PARTS:	1. Assy	parts				JIG:	Insertion Paddle sv	jig witch navigation	
NO.		PROCESS NAME	1 WORK	(PROCEDURE/ ILLU	STRATION	TOOLS/PPE	(QUALITY POINT	ERS
				TERMINAL FACING 1 2 3 WIRE INSERTION				vided jig per model. g usage of parts one insertion g insertion. rmed terminal c of terminal tip.	:
7	P1	Wire insertion to Connector PARP-03V (W) (Continuation)	1. Get the W wire using right hand th	R R	L OR W	CONTROLLER 626125-0001 CI	2. Make si inserted. Conduct I insertion. Do not ex 3. Automathe unit if terminal, clocked co	ert extra force. atically dispose an once encountered difficulty of inserti	perly sh after nd replace nd bend on and half-
			1. Get the W wire using right hand the connector. Conduct 2x push pull after insertion. Note: Follow the insertion sequence the illustration.	r wire 2.			1. Refer to 2. Refer to Steering I procedure	GL-PRO-ASY-02	4 for the ller

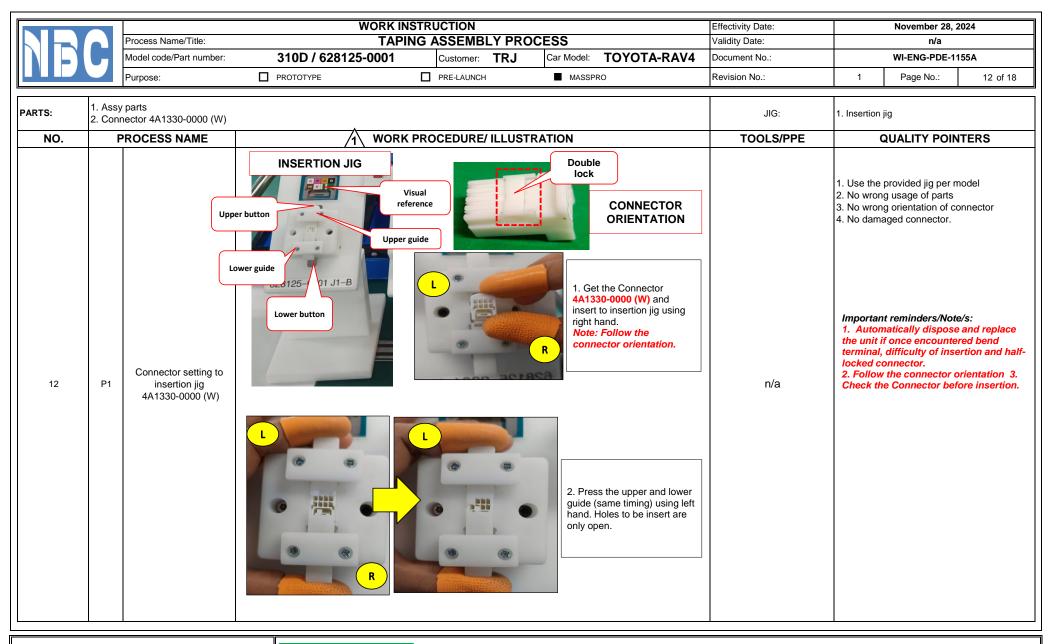




			WORK	INSTRUCTION			Effectivity Date:		November 28, 2	2024
		Process Name/Title:	_	PING ASSEMBLY PROC	CESS		Validity Date:		n/a	-
		Model code/Part number:	310D / 628125-0001		Car Model:	TOYOTA-RAV4	Document No.:		WI-ENG-PDE-11	55A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	■ MASSPR	२०	Revision No.:	1	Page No.:	9 of 18
PARTS:		ector PBVP-04V-S S 0.3 G-W/G-BR wires L=200	±2mm				JIG:	Insertion Paddle st	jig witch navigation	
NO.	F	PROCESS NAME	∕n wo	RK PROCEDURE/ ILLUSTR	ATION		TOOLS/PPE	(QUALITY POIN	TERS
10	P1	Wire insertion to Connector Connector PBVP-04V-S	INSERTION SEQUENCE FLEFT TO RIGHT 1 2 3 BR	WIRE INSERT 1 2 BR X 200 L 1 2 3 and transfer to the right hand the leat the process to W/G and B will hand the leat the leat the process to W/G and B will hand the leat the	W/G 200	4 G 200	STEERING NAVIGATION	2. No wrong 3. No wrong 4. No dama Important 1. Please 2. Make si inserted. Conduct F insertion. Do not ex 3. Automa the unit if terminal, of locked co 4. Insertio right. Document 1. Refer if 2. Refer if Steering procedui	n of wires must in treferences: to WI-PRO-CNC-CO WI-ENG-PDE-CO Navigation Controls. To GL-PRO-ASY-CO GL-PRO-ASY-CO MIRES	nector. S: In terminal. In perly Ish after Ind replace Ind bend Ition and half- Ite from left to Ite for the Ite for the Ite for the Ite for the Ite for the fooller

			WO	RK INSTRUCTION			Effectivity Date:	$\overline{1}$	November 28, 20	024
		Process Name/Title:		TAPING ASSEMBLY P	ROCESS		Validity Date:		n/a	
		Model code/Part number:	310D / 628125-00	001 Customer: TRJ	Car Model: TC	YOTA-RAV4	Document No.:		WI-ENG-PDE-115	55A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	■ MASSPRO		Revision No.:	1	Page No.:	10 of 18
PARTS:	1. Assy	parts					JIG:	Insertion j Paddle sv	iig vitch navigation	
NO.	ı	PROCESS NAME	<u>√1</u> ∨	VORK PROCEDURE/ ILLU	ISTRATION		TOOLS/PPE	(QUALITY POINT	ΓERS
10	P1	Wire insertion to Connector PBVP-04V-S (Continuation)	BACK VIEW OF TERMINAL GOOD Terminal condition Note: *Make sure the term. *Avoid hitting the tell.	terminal to connector FRONT OF TERMINAL GOOD Terminal condition inal was in proper alignment into the connector the attention of Immedia	BACK VIEW OF TERM Damaged terminal NO GOOD Terminal condition eent before insert. during wire insertic	on, if encountere	to connector IEW OF TERMINAL NO GOOD minal codition d abnormality stop	1. Use provi 2. No wrong 3. One by or 4.No wrong 5. No deform 6. No stuck of Importa 1. Make inserted Push aff Do not 6 2. Pleas termina 3. Autor replace encount difficult locked 4. Insert left to ri Docume 1. Refer Push provided Push provi	ded jig per model. usage of parts ne insertion insertion. ned terminal of terminal tip. ant reminders/Not e sure wires are p d. Conduct Pull-Pi ter insertion. exert extra force. hold the wires if during insertion matically dispose the unit if once tered bend termir y of insertion and connector. tion of wires mus ght. ent reference/s: to GL-PRO-ASY- on Standard for co	te/s: properly ush-Pull- near and nal, f half- t be from 029 for Pull-

			WORK II	NSTRUCTION		Effectivity Date:		November 28, 2	024
	\triangle	Process Name/Title:	TAP	ING ASSEMBLY PRO	CESS	Validity Date:		n/a	
		Model code/Part number:	310D / 628125-0001	Customer: TRJ	Car Model: TOYOTA-RAV4	Document No.:		WI-ENG-PDE-11	55A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	■ MASSPRO	Revision No.:	1	Page No.:	11 of 18
PARTS:	1. Assy 2. Blue	parts VM tube (Sunprene) Ø4.5, L=	:80±3mm			JIG:	Insertion Paddle sv	iig vitch navigation	
NO.	I	PROCESS NAME	∕ WORI	K PROCEDURE/ ILLUSTF	RATION	TOOLS/PPE	(QUALITY POIN	TERS
11	P1	Wire insertion to Blue VM tube (Sunprene) Ø4.5, L=80±3mm	1. Hold the wires using left hand, hand then insert the wires using left left left left left left left left	get the Blue VM tube (Sunpreeft hands.	2. After insertion, Press the Upper button using left hand then remove the assy parts using right hand. Check the insertion condition.	n/a	Z. No deform 3. No tangle Term Importar 1. Refer inspection [Insertion 2. Refer to 1]	inal tip must b at reminders/Note to GL-PRO-ASY- on Standard for O	e/s: 025 for coupler 043 for



			WORK IN	NSTRUCTION			Effectivity Date:		November 28, 2	024
		Process Name/Title:	TAPI	ING ASSEMBLY PRO	CESS		Validity Date:		n/a	
		Model code/Part number:	310D / 628125-0001	Customer: TRJ	Car Model:	TOYOTA-RAV4	Document No.:		WI-ENG-PDE-11	55A
		Purpose:	PROTOTYPE	PRE-LAUNCH	■ MASSP	RO	Revision No.:	1	Page No.:	13 of 18
PARTS:	1. Assy 2. Blac	v parts k VM tube (Sunprene) Ø6,	L=84±3mm				JIG:	1. Insertion	jig	
NO.	F	PROCESS NAME	∕1\ WORK	(PROCEDURE/ ILLUST	RATION		TOOLS/PPE	(QUALITY POIN	TERS
13		Wire insertion Black VM tube (Sunprene) Ø6, L=84±3mm	L R	L	the Black VM L=84±3mm us	es using right hand, get tube (Sunprene) Ø6, sing left hand then insert y parts) using both	n/a	2. No wrong 3. One by 4. No wrong 5. No defo	vided jig per mode ig usage of parts one insertion g insertion. rmed terminal k of terminal tip.	я.
14	P1	Wire insertion to Connector 4A1330-0000 (W)	2ND ROW X P OR B BR X G VISUAL REFERENCE 1. Insert the wires from Blue VM tub no.1 using right hand. Repeat the pro-		7 B 412 3 G 200	FIRST ROW (LEFT TO RIGHT)	n/a	2. No wrong 3. One by o 4.No wrong 5. No defon 6. No stuck Importan 1. Make inserted. Push aft Do not e. 2. Please terminal 3. Autom replace te encounte difficulty locked c 4. Inserti left to rig Docum 1. Refer Push pri 2. Refer	med terminal of terminal tip. at reminders/Note sure wires are properties. Conduct Pull-Puer insertion. A treminders force. A hold the wires in during insertion. A trically dispose the unit if once ered bend termin. A of insertion and connector. A on of wires must the first of the connector. The first of the connector of the	ear and al, half- be from 029 for Pull-

			WORK IN	NSTRUCTION			Effectivity Date: Novemb			024
		Process Name/Title:	TAPI	ING ASSEMBLY PRO	OCESS		Validity Date:		n/a	
		Model code/Part number:	310D / 628125-0001	Customer: TRJ	Car Model:	TOYOTA-RAV4	Document No.:		WI-ENG-PDE-11	55A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	■ MASSP	RO	Revision No.:	1	Page No.:	14 of 18
PARTS:	1. Ass	parts					JIG:	1. Insertion	jig	
NO.	l	PROCESS NAME	∕1\ WORK	K PROCEDURE/ ILLUST	TRATION		TOOLS/PPE		QUALITY POIN	TERS
14	P1	Wire insertion to Connector 4A1330-0000 (W) (Continuation)	VISUAL REFERENCE VISUAL REFERENCE L 2. Hold the P wire and insert to termin wires.	B 1 BR 200	5 P 412 R X	6 7 OR B 177 412 2 3 W/G G 200 200	n/a	2. No wron 3. One by 4. No wron 5. No defo 6. No stuc Importa 1. Pleas 2. Make inserted Conduc insertion Do not e 3. Autor the unit terminal locked o 4. Insert right. Docume 1. Refer 2. Refer Steering procedu 3. Refer	t Pull-Push-Pull-P n. exert extra force. natically dispose in if once encounter l, difficulty of inse connector. tion of wires must ent references: to WI-PRO-CNC-0 to WI-ENG-PDE-0 g Navigation Conti	e/s: ear terminal. roperly lush after and replace red bend rtion and half- be from left to

L	_		WORK	(INSTRUCTION		Effectivity Date: November 28, 2				
		Process Name/Title:		APING ASSEMBLY PR	OCESS		Validity Date:	+	n/a	
		Model code/Part number:	310D / 628125-0001		Car Model:	TOYOTA-RAV4	Document No.:		WI-ENG-PDE-11	55A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	■ MASSF	PRO	Revision No.:	1	Page No.:	15 of 18
PARTS:	1. Assy	parts					JIG:	1. Insertion	jig	
NO.	F	ROCESS NAME		RK PROCEDURE/ ILLUS	TRATION		TOOLS/PPE	(QUALITY POIN	ITERS
14	P1	Wire insertion to Connector 4A1330-0000 (W) (Continuation)	3. Press the upper and love.	wer button (same timing) using 4. Remove the as check if the connections	ssy parts using ri	ght hand and cked.	n/a	2. No wron 3. One by 4. No wron 5. No defor 6. No stuck Importar 1. Please 2. Make inserted Conduct insertior Do not e 3. Auton the unit terminal, locked c 4. Insert right. Docume 1. Refer 2. Refer Steering	med terminal k of terminal tip. Int reminders/Note hold the wire no sure wires are posterior with the hold the wire no sure to wire hold. It is note that the hold the wire note at it is note that the hold that t	e/s: ear terminal. roperly Push after and replace red bend ertion and half- t be from left to 017 044 for the troller

