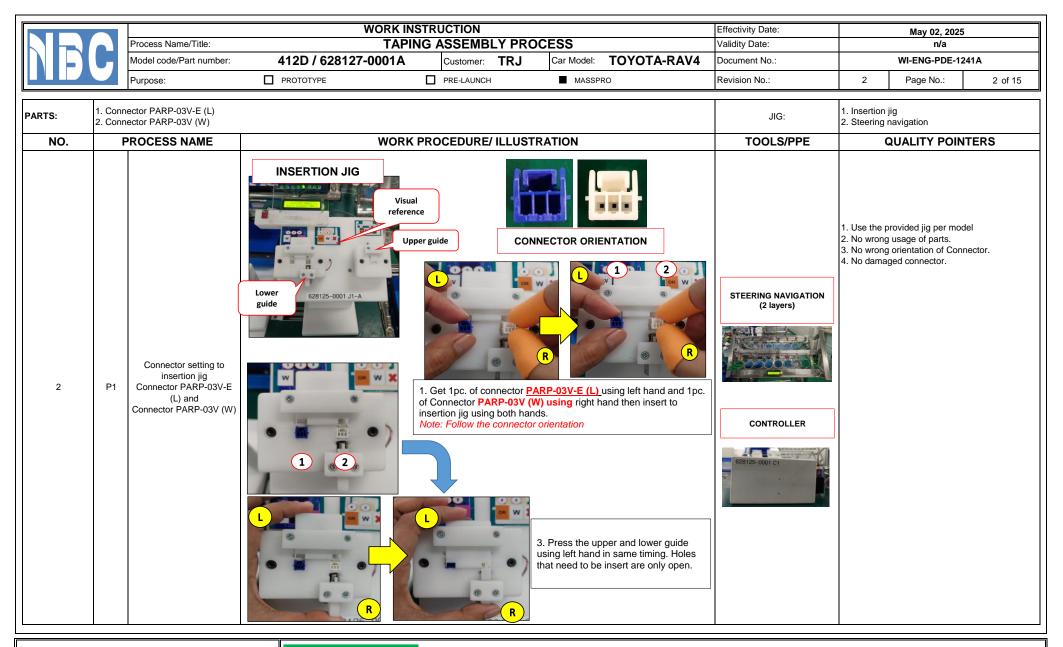
					RK INSTRUCTION					ivity Date:		May 02, 2025	
			Process Name/Title:		TAPING ASSEMBLY PRO	CESS			Validi	ty Date:		n/a	
			Model code/Part number:	412D / 628127-000	Customer: TRJ	Car Model:	TOYO	TA-RAV4	Docui	ment No.:		WI-ENG-PDE-124	11A
			Purpose:	☐ PROTOTYPE	☐ PRE-LAUNCH	MASSP	RO		Revis	ion No.:	2	Page No.:	1 of 15
PARTS:		PARP-03 W/G-BR	V (W); Black VM tube (Sunprene) vires L=184±2mm; Blue VM tube	ARP-03V (W); AVSS 0.3 W wire L=314±2mm; Ø4, L=45±3mm; Black VM tube (Sunprene) Ø Sunprene) Ø4.5, L=68±3mm; AVSS 0.3 OR v	Ø5.5, L=20±3mm; Retainer (PMS-03V-S (W); wire L=162±2mm	Black tape; Connec				JIG:	1. Insertion 2. Steering	navigation	
N	<b>O</b> .	F	ROCESS NAME	W	ORK PROCEDURE/ ILLUST	RATION				TOOLS/PPE	(	QUALITY POIN	TERS
1		P1	Table lay-out	628127-0001A J1-A	PARP-03V-E (L)  Connector PARP-03V (W)	2 lay Navig	Bluc (St	e VM tube unprene) Ø5.5, 47±3mm  ck VM tube unprene) Ø4.5, 668±3mm  Retainer MS-03V-S (W)	pp pr ( (	afety Instruction Be sure to wear rescribed persona otective equipmer during operation gloves, finger cots. etc.)  Housekeeping Maintain and alway practice 5's. Personal things of the workplace is ohibited. Keep it ir your locker.  Alert level r any trouble, infor Assembly Assista Supervisor or Line eader for immediat corrective action.	1. No missi 2. No excess  2. No excess  Docum 1. Refe Wire an	ng parts/tools is parts/tools ent references: r to WI-PRO-CNC- nd Strip Length To	
				Revision F	History					Prepared by	Checked by	Reviewed by	Approved by
								C					
05/02/25	1		of terminal "Good and No Goo rom Pre-launch to Masspro.	od" illustration on page 4 and 9. Update the	Visual Inspections/Quality Checkpoints.	M. Ariola	J. Loterte	Villanueva A C	Arañes		( )	1/	Almo
04/11/25	0	Initial iss	ue.	ape to connector 4A1330 (W) (88mm).		M. Ariola M. Ariola	J. Loterte J. Loterte	C	Arañes Arañes	M. Ariala	. I lowrte	C. Villanueva	A.Arañes
Eff. Date	Rev. No		zz.zaromom nom ond or u	Details of Change		Revised	Checked		Voted	1/	April 11 ,2025	J. vilidi luova	, the trained
	*	•							-	r ·			



			WORK INSTRUC	TION			Effectivity Date:		May 02, 2025	
		Process Name/Title:		SEMBLY PROC	CESS		Validity Date:		n/a	,
		Model code/Part number:		ustomer: TRJ	Car Model:	TOYOTA-RAV4	Document No.:		WI-ENG-PDE-12	241A
		Purpose:	PROTOTYPE PF	RE-LAUNCH	■ MASSP	RO	Revision No.:	2	Page No.:	3 of 15
PARTS:		6 0.3 W wire L=314±2mm 6 0.3 P-B wires L=268±2mm					JIG:	Insertion     Steering		
NO.	F	PROCESS NAME	WORK PROC	EDURE/ ILLUSTR	RATION		TOOLS/PPE	(	QUALITY POIN	ITERS
			INSERTION SEQUENCE FROM LEFT TO RIGHT	WIRE INSERT		TERMINAL FACING  TRATION  3 P		<ul><li>2. No wron</li><li>3. One by</li><li>4. No wron</li><li>5. No defo</li></ul>	vided jig per mode ig usage of parts one insertion ig insertion. rmed terminal	el.
3	P1	Wire insertion to Connector PARP-03V-E (L)	1. Get the W wire using right hand then inser Repeat the process to B and Pink wire.  Note: Follow the insertion sequence based  2. After	314	268  L  uct 2x push pu	268  R  ull after wire insertion.		Importa. 1. Pleas 2. Make insertion Do not e 3. Autor the unit terminal half-loc 4. Insert to right.  Docume 1. Refer i 2. Refer i Steering procedur	nt reminders/Note hold the wire n sure wires are plant.  It Pull-Push-Pull-n.  exert extra force. matically dispose if once encounted if once encounted in the wires must be with the wires must be with the wires must be wires.  Int references: to WI-PRO-CNC-to WI-ENG-PDE-CNC-to WI-ENG-PDE-CNC-to GL-PRO-ASY-to GL-PRO-ASY-to GL-PRO-ASY-to GL-PRO-ASY-to GL-PRO-ASY-to wires.	ear terminal. properly  Push after e and replace ered bend ertion and at be from left  017 044 for the troller

	_		WORK	(INSTRUCTION		Effectivity Date:		May 02, 2025	
		Process Name/Title:		APING ASSEMBLY PRO	CESS	Validity Date:		n/a	
		Model code/Part number:	412D / 628127-0001		Car Model: TOYOTA-RAV4	Document No.:		WI-ENG-PDE-124	1A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	2	Page No.:	4 of 15
PARTS:	1. Assy	parts				JIG:	1. Insertion 2. Steering		
NO.	l	PROCESS NAME	<u> 2</u> wo	RK PROCEDURE/ ILLUST	RATION	TOOLS/PPE	(	QUALITY POINT	ERS
3	P1	Wire insertion to Connector PARP-03V -E (L) (Continuation)	GOOD Terminal Condition  Note: *Make sure the terminal v *Avoid hitting the terminal		Damage Terminal  NO GOOD Terminal Condition  NO Terminal	W ON TERMINAL  GOOD Il Condition	2. No wron 3. One by 6 4. No wron 5. No defor 6. No stuck  Importa  1. Malinserte Push a Do not 2. Plea termin 3. Aute replace encoul difficul locked 4. Inse left to Docum  1. Refe and Sti 2. Refe Steerin proced 3. Refe Push p 4. Refe	med terminal c of terminal tip. ant reminders/Note we sure wires are p d. Conduct Pull-P offer insertion. exert extra force. se hold the wires all during insertion of wires and dispose the unit if once intered bend termin ty of insertion and connector. rition of wires mus right. inent reference/s: r to WI-PRO-CNC- rip Length Toleran r to WI-ENG-PDE-( ig Navigation Cont ure r to GL-PRO-ASY- rocedure. r to GL-PRO-ASY- rocedure. r to GL-PRO-ASY- rocedure.	e/s: properly ush-Pull- near n. e and nal, d half- et be from  017 for Wire ce. 044 for troller 029 for Pull-

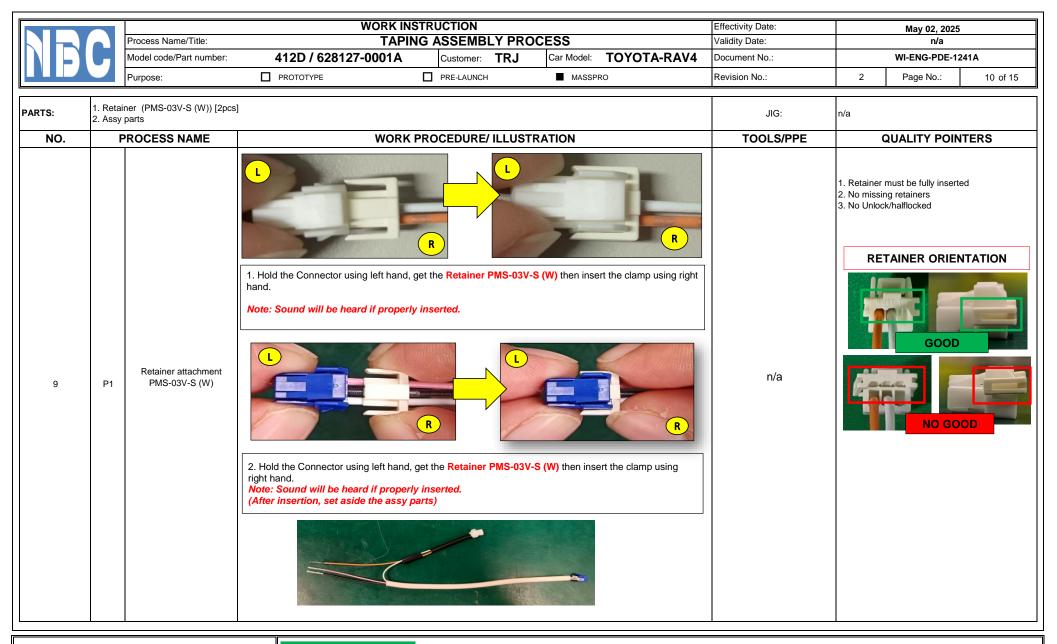
			WORK INS		Effectivity Date:	May 02, 2025				
		Process Name/Title:	TAPIN	G ASSEMBLY PROC	CESS		Validity Date:		n/a	
		Model code/Part number:	412D / 628127-0001A	Customer: TRJ	Car Model:	TOYOTA-RAV4	Document No.:		WI-ENG-PDE-12	41A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	MASSPE	Ю.	Revision No.:	2	Page No.:	5 of 15
PARTS:		parts e VM tube (Sunprene) Ø4.5, lector PARP-03V (W)	L=184±4mm	4. AVSS 0.3 OR wires L=	-162±2mm		JIG:	Insertion     Steering	navigation	
NO.	F	PROCESS NAME	WORK P	ROCEDURE/ ILLUSTR	ATION		TOOLS/PPE	(	QUALITY POIN	TERS
4		Wire insertion to White VM tube (Sunprene) Ø4.5, L=184±4mm	L R		hand tube L=18 hand	old the wires using left, get the White VM (Sunprene) Ø4.5, 4±4mm using right then insert the wires both hands.	n/a		g usage of parts. rmed terminal. led wires.	
5	P1	Wire insertion to Connector PARP-03V (W)	INSERTION SEQUENCE FROM LEFT TO RIGHT	WIRE I	ısh pull after v	en insert to vire insertion. Note:	STEERING NAVIGATION	2. No wron 3. One by 4. No wron 5. No defo 6. No stucil Importan 1. Please 2. Make s inserted. Conduct insertion. Do not ex 3. Autom the unit in terminal, locked co 4. Insertion 1. Refer t 2. Refer t 5. Steering procedur	ert extra force. atically dispose a once encounter difficulty of inser- onnector. on of wires must at references: o WI-PRO-CNC-0 o WI-ENG-PDE-0 Navigation Contre. o GL-PRO-ASY-0	/s: ar terminal. operly ush after and replace ed bend tion and half- be from left to 17 44 for the oller

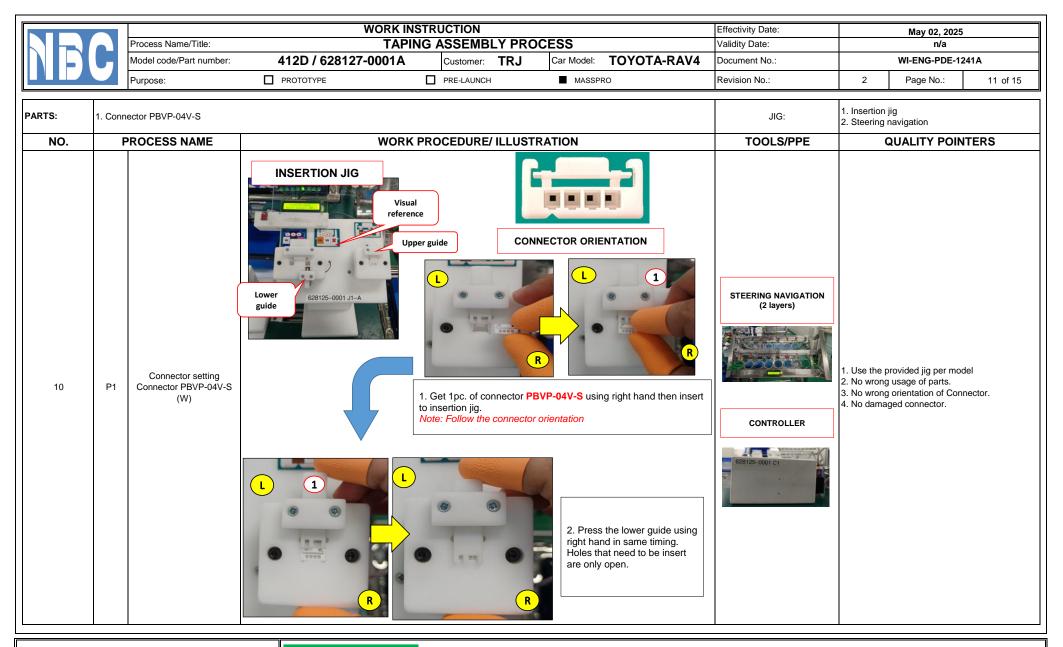
				STRUCTION			Effectivity Date:		May 02, 2025	
		Process Name/Title:		NG ASSEMBLY PRO			Validity Date:		n/a	
		Model code/Part number:	412D / 628127-0001A	Customer: TRJ	Car Model:	TOYOTA-RAV4	Document No.:		WI-ENG-PDE-124	1A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	MASSPRO	1	Revision No.:	2	Page No.:	6 of 15
PARTS:	1. Assy 2. Black 3. Black	parts v VM tube (Sunprene) Ø4, L=4 v VM tube (Sunprene) Ø5.5, L	!5±3mm .=20±3mm				JIG:	Insertion j     Steering r	ig navigation	
NO.		PROCESS NAME		PROCEDURE/ ILLUST	RATION		TOOLS/PPE	G	QUALITY POINT	ERS
6		Wire insertion to Black VM tube (Sunprene) Ø4, L=45±3mm	1. Hold the wires using left hand, get then insert the wire using both hand.	R R Black VM tube (Sunpre	Rene) Ø4, L=45±3r	mm using right hand	n/a		g usage of parts. med terminal. ed wires.	
7	P1	Wire insertion to Black VM tube (Sunprene) Ø5.5, L=20±3mm	1. Hold the wire using left hand, get the tube (Sunprene) Ø5.5, L=20±3mm using both hand.	R e Black VM ssing right hand		R	n/a	1. No wrong 2. No defor 3. No tangle 4. No Missi		

			WORK IN	STRUCTION		Effectivity Date: May 02, 2025				
		Process Name/Title:	TAPII	NG ASSEMBLY PRO	CESS		Validity Date:		n/a	
		Model code/Part number:	412D / 628127-0001A	Customer: TRJ	Car Model:	TOYOTA-RAV4	Document No.:		WI-ENG-PDE-12	241A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	MASSPE	RO	Revision No.:	2	Page No.:	7 of 15
PARTS:	1. Assy	parts					JIG:	1. Insertion 2. Steering		
NO.	F	PROCESS NAME	WORK	PROCEDURE/ ILLUST	RATION		TOOLS/PPE	(	QUALITY POIN	TERS
7	P1	Wire insertion to Black VM tube (Sunprene) Ø5.5, L=20±3mm (Continuation)	2. Press the upper and lower button using right hand. After removal of ha Note: Second connector with insering.	rness, Press the Upper quic	3. Hold the (Sunprene) insert the will (Connector hand. Reper	nd.			g usage of parts. rmed terminal. led wires.	

			WORK	INSTRUCTION			Effectivity Date:		May 02, 2025	
		Process Name/Title:	TAI	PING ASSEMBLY	Y PROC	ESS	Validity Date:		n/a	
		Model code/Part number:	412D / 628127-0001A	Customer:	TRJ	Car Model: TOYOTA-RAV4	Document No.:		WI-ENG-PDE-12	241A
		Purpose:	PROTOTYPE	PRE-LAUNCH		MASSPRO	Revision No.:	2	Page No.:	8 of 15
PARTS:	1. Assy	parts						1. Insertion 2. Steering	jig navigation	
NO.	I	PROCESS NAME	WOF	RK PROCEDURE/ II	LLUSTRA	ATION	TOOLS/PPE	(	QUALITY POIN	TERS
			INSERTION SEQUENCE FROM LEFT TO RIGHT  4 5  OR W X	1 2 OR W 162 314	3 X	TERMINAL FACING  WIRE INSERTION ILLUSTRATION	STEERING NAVIGATION	2. No wron 3. One by 0 4. No wron 5. No defor 6. No stuck  Important 1. Please	vided jig per mode g usage of parts one insertion g insertion. rmed terminal c of terminal tip. reminders/Note/ hold the wire new ure wires are pro-	's: ar terminal.
8	P1	Wire insertion to Connector PARP-03V (W)	1. Get the W wire using right hand connector. Conduct 2x push pull af insertion.  Note: Follow the insertion seque the illustration.	ter wire ence based on  3. After insertion	Remove t wires usin		CONTROLLER  628125-6001 C1	Conduct I insertion. Do not ex 3. Automathe unit if the unit if locked co 4. Insertioright.  Documen 1. Refer to 2. Refer to Steering procedure.	on of wires must of references: o WI-PRO-CNC-0 o WI-ENG-PDE-0 Navigation Contr e. o GL-PRO-ASY-0	and replace ed bend tion and half- be from left to 17 44 for the oller
				tip condition, mu	ıst be visib	le.				

			WOF	RK INSTRUCTION		Effectivity Date:	May 02, 2025		
		Process Name/Title:		TAPING ASSEMBLY PRO	CESS	Validity Date:		n/a	
		Model code/Part number:	412D / 628127-000	O1A Customer: TRJ	Car Model: TOYOTA-RAV	Document No.:		WI-ENG-PDE-12	241A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	2	Page No.:	9 of 15
PARTS:	1. Assy	parts				JIG:	1. Insertion 2. Steering		
NO.	F	PROCESS NAME	<u> 2</u> W	ORK PROCEDURE/ ILLUST	RATION	TOOLS/PPE	(	QUALITY POIN	ITERS
8	P1	Wire insertion to Connector PARP-03V (W) (Continuation)	*Avoid hitting the termi		Damage Terminal  NO GOOD Terminal Condition  Te	NO GOOD minal Condition	2. No wror 3. One by 4. No wror 5. No defo 6. No stuce  Import 1. Mainsert Push Do no 2. Pleatermin 3. Autreplace encoudifficulocked 4. Inseleft to Docum 1. Refeand St 2. Refe Steerin procec 3. Refe Push p 4. Refe	er to WI-PRO-CNG rip Length Tolera er to WI-ENG-PDE ng Navigation Co lure er to GL-PRO-AS' procedure. er to GL-PRO-AS' tion Standard fol	ote/s: properly Push-Pull- e. s near on. se and ininal, nd half- ust be from  C-017 for Wire trice. E-044 for ntroller Y-029 for Pull-





				NSTRUCTION		Effectivity Date:		May 02, 2025	
		Process Name/Title:	TAPI	ING ASSEMBLY PRO	CESS	Validity Date:		n/a	
		Model code/Part number:	412D / 628127-0001A	Customer: TRJ	Car Model: TOYOTA-RAV4	Document No.:		WI-ENG-PDE-124	1A
		Purpose:	☐ PROTOTYPE	☐ PRE-LAUNCH	MASSPRO	Revision No.:	2	Page No.:	12 of 15
PARTS:		ector PBVP-04V-S : 0.3 G-W/G-BR wires L=184:	±2mm			JIG:	Insertion j     Steering r		
NO.	Р	ROCESS NAME	WORK	( PROCEDURE/ ILLUSTR	RATION	TOOLS/PPE	C	QUALITY POINT	ERS
11	P1	Wire insertion to Connector PBVP-04V-S	INSERTION SEQUENCE FRELEFT TO RIGHT  1 2 3  BR	WIRE INSERTING THE PROPERTY OF	184 184  L 1 2 3  R  R  Auct 2x push pull after wire insertion.	STEERING NAVIGATION (2 layers)	2. No wrong 3. No wrong 4. No damag Important 1. Please It 2. Make su inserted. Conduct P insertion. Do not exe 3. Automa the unit if terminal, of locked cor 4. Insertion right.  Document 1. Refer to 2. Refer to Steering	n of wires must be nt references: o WI-PRO-CNC-01 o WI-ENG-PDE-04 Navigation Contro e. o GL-PRO-ASY-02	ector.  : terminal. perly sh after  d replace d bend ion and half- e from left to

			WORK I	NSTRUCTION		Effectivity Date:		May 02, 2025	
		Process Name/Title:	TAP	PING ASSEMBLY PR	ROCESS	Validity Date:		n/a	
		Model code/Part number:	412D / 628127-0001A	Customer: TRJ	Car Model: TOYOTA-F	RAV4 Document No.:		WI-ENG-PDE-12	241A
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	■ MASSPRO	Revision No.:	2	Page No.:	13 of 15
PARTS:	1. Assy	parts				JIG:	Insertion     Paddle sv	jig vitch navigation	
NO.	F	PROCESS NAME	WOR	K PROCEDURE/ ILLUS	STRATION	TOOLS/PPE	(	QUALITY POIN	TERS
11	P1	Wire insertion to Connector PBVP-04V-S (Continuation)	BACK VIEW OF TERMINAL  GOOD Terminal condition  Note:  *Make sure the terminal *Avoid hitting the terminal	FRONT OF TERMINAL  GOOD Terminal condition  was in proper alignmental into the connector of	BACK VIEW OF TERMINAL  Damaged terminal  NO GOOD Terminal condition  Pent before insert.  during wire insertion, if enc	FRONT VIEW OF TERMINAL  NO GOOD Terminal codition	1. Use provided in the second of the second	ided jig per model. I usage of parts ne insertion I insertion. Indeterminal of terminal tip.  ant reminders/No e sure wires are jet. Conduct Pull-fiter insertion. exert extra force, the hold the wires il during insertion and termit if once tered bend termity of insertion and connector. I tip of insertion and connector. I to GL-PRO-ASY occedure. I to GL-PRO-ASY occedure. I to GL-PRO-ASY on Standard for	ote/s: properly Push-Pull- near ne and inal, d half- st be from -029 for Pull-

			WORK I	NSTRUCTION		Effectivity Date:		May 02, 2025	
		Process Name/Title:		ING ASSEMBLY PRO	CESS	Validity Date:		n/a	
		Model code/Part number:	412D / 628127-0001A	Customer: TRJ	Car Model: TOYOTA-RAV4	Document No.:		WI-ENG-PDE-124	41A
		Purpose:	PROTOTYPE	PRE-LAUNCH	■ MASSPRO	Revision No.:	2	Page No.:	14 of 15
PARTS:	1. Assy 2. Blue	parts VM tube (Sunprene) Ø4.5, L=	-68±3mm			JIG:	1. Insertion 2. Paddle sv	jig witch navigation	
NO.	ı	PROCESS NAME	WOR	K PROCEDURE/ ILLUST	RATION	TOOLS/PPE	(	QUALITY POIN	ΓERS
12	P1	Wire insertion to Blue VM tube (Sunprene) Ø4.5, L=68±3mm	1. Hold the wires using left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand then insert the wires using by the left hand, hand	get the Blue VM tube (Sunprooth 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	2. No deform 3. No tangle  Term  Important  1. Refer inspection insertion 2. Refer to 2.	ninal tip must b nt reminders/Note to GL-PRO-ASY- on Standard for C	y/s: 025 for oupler 143 for

