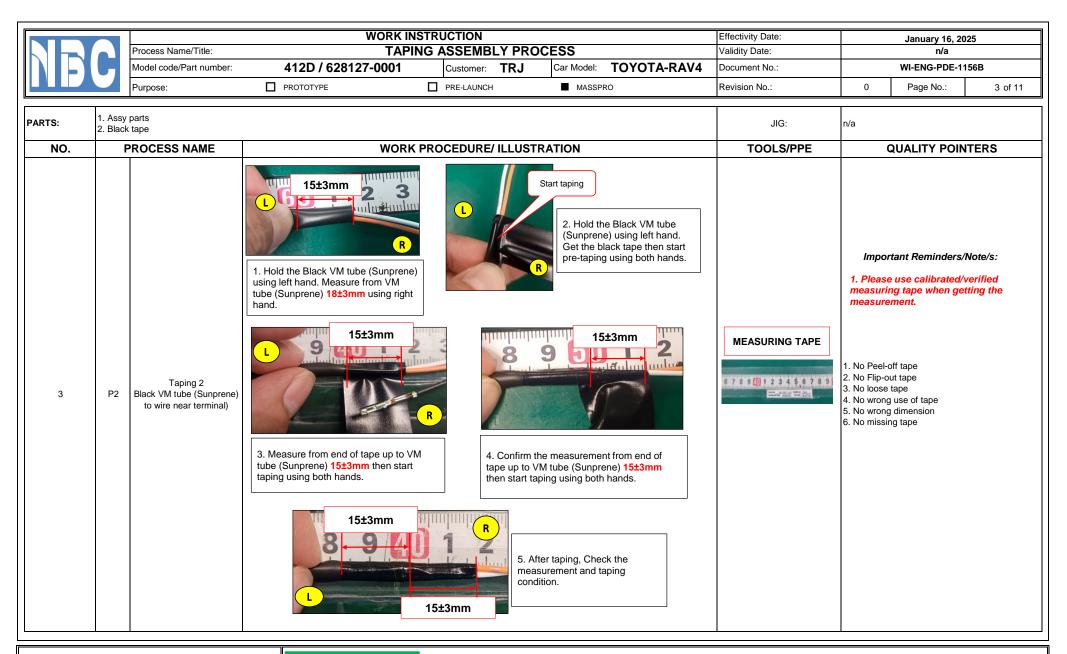
					INSTRUCTION				Effec	tivity Date:		January 16, 20	25
			Process Name/Title:		PING ASSEMBLY PROC	1				ty Date:		n/a	
			Model code/Part number:	412D / 628127-000 ⁻		Car Model:	TOYO	TA-RAV		ment No.:		WI-ENG-PDE-1	156B
			Purpose:	PROTOTYPE	PRE-LAUNCH	MASSP	RO		Revis	sion No.:	0	Page No.:	1 of 11
PARTS:		, ,		Black tape; Black VM tube (Sunprene) Ø6, L=4	·					JIG:	1. Insertion		
N	0.	F	PROCESS NAME	WO	RK PROCEDURE/ ILLUSTR	ATION				TOOLS/PPE		QUALITY POIN	ITERS
	1	P2	Table lay-out	Connector 4A1330-0000 (W)/Box Assy	TABLE LAY-OUT Parts	Black (Sunp L=47±		S. X.	f pi	Be sure to wear orescribed person otective equipme during operation gloves, finger cot etc.) Housekeeping Maintain and alway practice 5's. Personal things the workplace is rohibited. Keep it your locker. Alert level or assembly Assist Supervisor or Line adder for immedia corrective action.	al al 1. No missi 2. No excess, ays Importa 1. Pleas 2. Make inserted Conductinsertion Do not contain 1. Reference and 1. Ref	t Pull-Push-Pull-	ear terminal. Push after -029 for Pull-
	1	1		Revision His	tory			, ,		Prepared by	Reviewed by	Approved by	Noted by
01/16/25		Initial iss Exclude		56 due to new process distribution. Change	Purpose from Pre-launch to Masspro.	M. Ariola	C. Villanueva	A.Arañes	n/a	hluelyt M. Arrigia	C. Villanueva	A.Arañes	n/a
Eff. Date	Rev. No			Details of Change		Revised	Reviewed	Approved	Noted	Est. Date:	January 16, 2025		
										•			

		Process Name/Title:		ISTRUCTION ING ASSEMBLY P	POCESS		Effectivity Date: Validity Date:		January 16, 20 n/a	25	
		Model code/Part number:	412D / 628127-0001	Customer: TR		TOYOTA-RAV4	Document No.:	WI-ENG-PDE-1156B			
	<u>U</u>	Purpose:	☐ PROTOTYPE	☐ PRE-LAUNCH	MASSPI		Revision No.:	0	Page No.:	2 of 11	
PARTS:	1. Assy 2. Black	tape					JIG:	n/a			
NO.	ı	PROCESS NAME	WORK	PROCEDURE/ ILLU	ISTRATION		TOOLS/PPE	(QUALITY POIN	TERS	
2	P2	Taping 1 Blue VM tube (Sunprene) to Wire	15±3mm	VM tube (Sunprene) using left hand. Measure from VM tube (Sunprene) 15±3mm using right hand. 3. Confirm the meafrom end of tape up (Sunprene) 15±3mm taping using both hand.	asurement to to VM tube m then start tands.	2. Hold the Blue VM tube (Sunprene) using left hand. Get the black tape using right hand and start taping process. 15±3mm		1. No Peel- 2. No Flip-o 3. No loose	off tape ut tape tape g use of tape g dimension	verified	

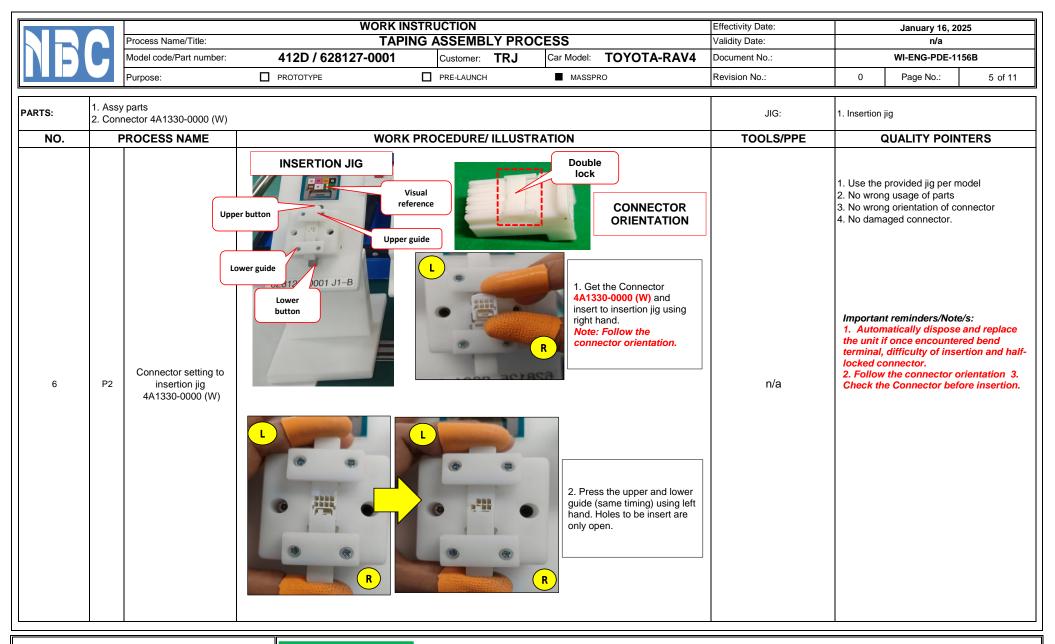




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		Process Name/Title:		NSTRUCTION ING ASSEMBLY PR	OCESS		Effectivity Date: Validity Date:		January 16, 20 n/a	25
		Model code/Part number:	412D / 628127-0001	Customer: TRJ	Car Model:	TOYOTA-RAV4	Document No.:		WI-ENG-PDE-11	56B
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	MASSP	PRO	Revision No.:	0	Page No.:	4 of 11
PARTS:	1. Assy 2. Black	parts VM tube (Sunprene) Ø6, L=	:47±3mm				JIG:	n/a		
NO.	F	PROCESS NAME	WORK	(PROCEDURE/ ILLUS	TRATION		TOOLS/PPE	(QUALITY POIN	TERS
4		Wire insertion to Black VM tube (Assy parts)	1. Hold the Black VM tube wires from Blue VM tube (R L e (Sunprene) (assy parts) us (Sunprene) using both han	sing right hand. Ir	nsert the	n/a	No wrong No deform No tangle	g usage of parts med terminal ad wires	
5	P2	Wire insertion Black VM tube (Sunprene) Ø6, L=47±3mm	1. Hold the wires using right hausing left hand then insert the	and, get the Black VM tube wires (Assy parts) using bo	e (Sunprene) Ø6 th hands.	R 6, L=47±3mm	n/a	 No wrong One by o No wrong No deform 	ided jig per model. g usage of parts one insertion g insertion. med terminal of terminal tip.	





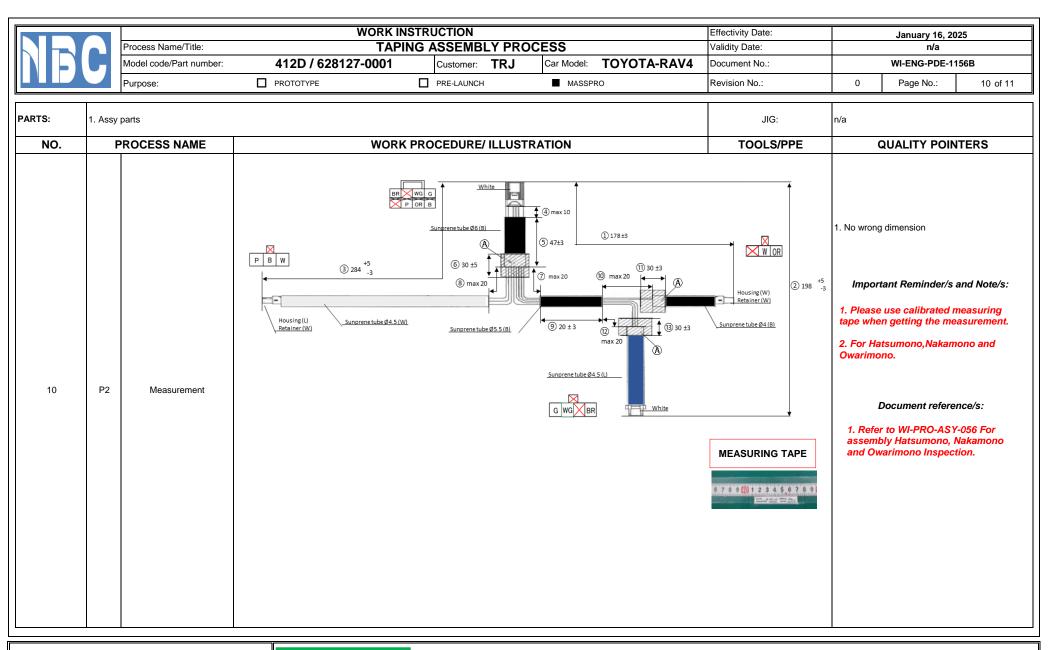
				K INSTRUCTION			Effectivity Date:		January 16, 20	125
		Process Name/Title:	T	APING ASSEMBLY PR	OCESS		Validity Date:		n/a	
		Model code/Part number:	412D / 628127-000	1 Customer: TRJ	Car Model:	TOYOTA-RAV4	Document No.:		WI-ENG-PDE-1	156B
		Purpose:	☐ PROTOTYPE	☐ PRE-LAUNCH	MASSPI	RO	Revision No.:	0	Page No.:	6 of 11
PARTS:	1. Assy	parts					JIG:	1. Insertion	jig	
NO.	F	PROCESS NAME	AME WORK PROCEDURE/ ILLUSTRATION				TOOLS/PPE	QUALITY POINTERS		
7	P2	Wire insertion to Connector 4A1330-0000 (W)		INSERTION SEQUENCE FRIGHT S	R wire and inserts. R wire wire and inserts.	R ne). Hold the P wire		2. No wrong 3. One by o 4. No wrong 5. No defon 6. No stuck Importa 1. Make inserted Push ai Do not 2. Pleas termina 3. Auto replace encoun difficult locked 4. Inser left to r. Docum 1. Refer Push pro 2. Refer	ant reminders/Note sure wires are d. Conduct Pull-Ifter insertion. exert extra force se hold the wires all during insertion matically disposite the unit if once itered bend termity of insertion and connector. tion of wires mutight. ent reference/s: to GL-PRO-ASY-ocedure.	oroperly Push-Pull- near n. e and inal, d half- st be from 029 for Pull-

		<u> </u>	WORK	NSTRUCTION			Effectivity Date:	1		
		Process Name/Title:		PING ASSEMBLY PRO)CESS		Validity Date:		January 16, 20 n/a	25
						TOYOTA DAYA				
	5	Model code/Part number:	412D / 628127-0001	Customer: TRJ	Car Model:	TOYOTA-RAV4	Document No.:		WI-ENG-PDE-11	56B
		Purpose:	☐ PROTOTYPE	☐ PRE-LAUNCH	■ MASSPI	RO	Revision No.:	0	Page No.:	7 of 11
PARTS:	1. Ass	y parts					JIG:	1. Insertion	jig	
NO.		PROCESS NAME	WORI	K PROCEDURE/ ILLUST	RATION		TOOLS/PPE	(QUALITY POIN	TERS
7	P2	Wire insertion to Connector 4A1330-0000 (W) (Continuation)	3. Press the upper and lower	er button (same timing) using 4. Remove the ass check if the conne	sy parts using rig	R R pht hand and ked.	n/a	2. No wron 3. One by 4. No wron 5. No defo 6. No stuc Importan 1. Please 2. Make inserted Conduct insertion Do not e 3. Auton the unit terminal locked o 4. Insert right. Docume 1. Refer 2. Refer Steering procedu	t Pull-Push-Pull-Fn. exert extra force. natically dispose if once encounte I, difficulty of insector. ion of wires must ent references: to WI-PRO-CNC-(to WI-ENG-PDE-(ty Navigation Cont ire. to GL-PRO-ASY-(e/s: ear terminal. roperly Push after and replace red bend ertion and half- t be from left to 017 044 for the troller



			WORKI	NSTRUCTION		Effectivity Date:		January 16, 20	25
	\triangle	Process Name/Title:		ING ASSEMBLY PROC	ESS	Validity Date:		n/a	20
		Model code/Part number:	412D / 628127-0001	Customer: TRJ	Car Model: TOYOTA-RAV4	Document No.:		WI-ENG-PDE-11	56B
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	■ MASSPRO	Revision No.:	0	Page No.:	8 of 11
PARTS:	1. Assy 2. Black					JIG:	n/a		
NO.	F	PROCESS NAME	WOR	K PROCEDURE/ ILLUSTRA	ATION	TOOLS/PPE	(QUALITY POIN	TERS
8	P2	Taping 3 Black VM tube (Sunprene) to wire near terminal)	3. Confirm the measurement from end of tape up to VM tube (Sunprene) 15±3mm then start taping using both hands.	1. Hold the Black VM tube (Sunprene) using left hand. Measure from VM tube (Sunprene) up to Combined VM tube tubes 18±3mm using right hand. 15±3mm 15±3mm 15±3mm	2. Get the black tape then start pretaping using both hands. 4. Confirm the measurement from end of tape up to VM tube (Sunprene) 15±3mm then start taping using both hands. R 5. After taping, Check the measurement and taping condition.		1. Please	off tape ut tape tape use of tape dimension	verified

			WORK I	NSTRUCTION			Effectivity Date:		January 16, 20	25	
		Process Name/Title:	TAP	Validity Date:	n/a						
		Model code/Part number:	412D / 628127-0001 Custo		Car Model:	TOYOTA-RAV4	Document No.:	WI-ENG-PDE-1156B			
		Purpose:	PROTOTYPE	PRE-LAUNCH	■ MASSF	PRO	Revision No.:	0	Page No.:	9 of 11	
PARTS:	2. Mast	mbled parts er sample					JIG:	n/a			
NO.	F	PROCESS NAME	WOR	K PROCEDURE/ IL	LUSTRATION		TOOLS/PPE	QUALITY POINTERS			
9	P2	Visual/By two's Inspection	1. Check the connector lock. Locking of connector is included in Steering Electrical test. ACTUAL PRODUCT 4. Check the orientation of harness. MASTER SAMPLE	2. Check the wire align Must be no tangled with the notangled with the	gnment. vires. 3. Check Backing or no def	ASTER AMPLE	n/a	De	ocument refence, to WI-QAD-QAC-	' s: 252 Steering	



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				WOR	K INSTRUCTION				Effectivity Date:		January 16, 20)25
		Process Name/Title:		TAPING ASSEMBLY PROCESS				Validity Date:		n/a		
		Model code/Part number:	412D / (/ 628127-0001 Customer: TRJ Car Model: TOYO1			OTA-RAV4	Document No.:	WI-ENG-PDE-1	156B		
		Purpose:	☐ PROTOTYPE		PRE-LAUNCH	■ M	ASSPRO		Revision No.:	0	Page No.:	11 of 11
PARTS	i: n/a								JIG:	n/a		
	•				VISUAL INSPECTION	N/ QUALITY (CHECKPOI	NTS		•		
		P2				62 8	812	<mark>27-</mark>	0001			
		k the connector ector is included			2. Check the Must be no		_	i.	3. Check the Backing out (no deformed	Not fully	/ inserted	d) or
		BLACK VM TUBE (SUNPRENE) Ø6		100	CK VM TUBE PRENE) dia. Ø4	>				M	Compare aster sai tapping	
			VM TUBE NE) dia. Ø5		BLUE VI (SUNPRE				VM TUBE RENE) Ø4.5			
	4. No m	nissing tape (Bla	ck tape)	1 1 .	5. Check the ori narness.	entation	of	6. 1	No missing retai	iner.		

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