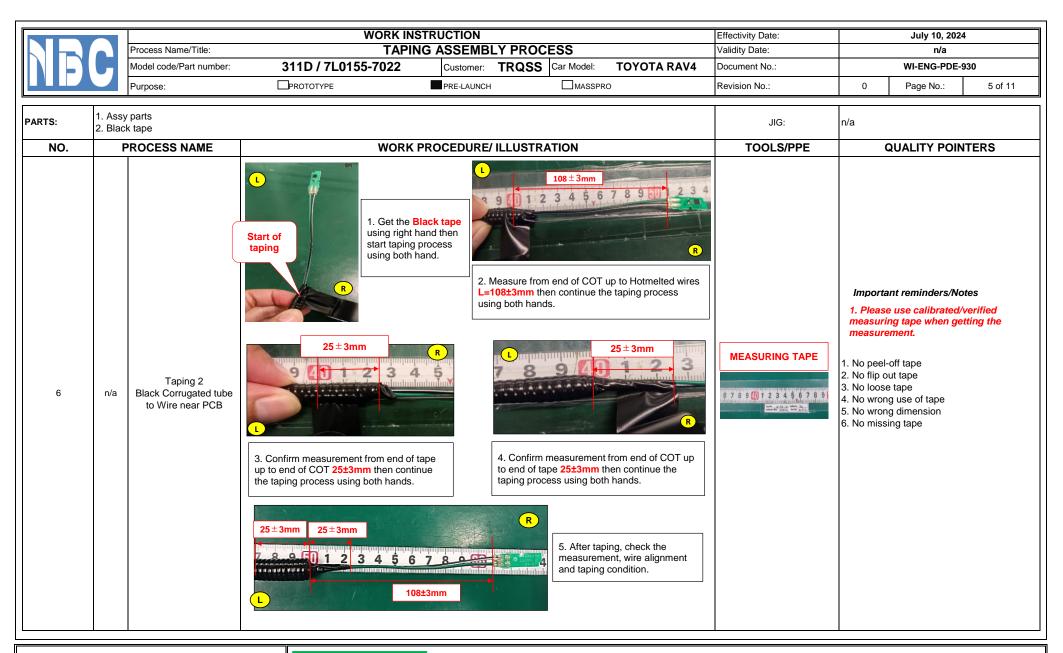
					TRUCTION				Effe	ctivity Date:			July 10, 2024	,
			Process Name/Title:		G ASSEMBLY P				Valid	dity Date:			n/a	
			Model code/Part number:	311D / 7L0155-7022	Customer: TR	QSS Car Model:	TOY	OTA RAV4	Doc	ument No.:			WI-ENG-PDE-9	30
			Purpose:	PROTOTYPE	PRE-LAUNCH	☐ MASSI	PRO		Rev	ision No.:		0	Page No.:	1 of 11
PARTS:			nector 6188-0407 (W) SW CP (TVSSf 0.3 G-BW	wires L=588±3mm	3. Black Corruga	ted tube (No slit) ø	7, L=297±4	ŀmm		JIG:	r	n/a		
N	0.	P	PROCESS NAME	WORK F	PROCEDURE/ ILLU	JSTRATION				TOOLS/PPE		•	QUALITY POIN	TERS
1	l		Wire insertion to Black Corrugated tube (No Slit) ø7, L=297±4mm	1. Get the Black Corrugated tub	L	4mm using right h	and then in	R sert the wire	p	Bafety Instruction Be sure to wear required personal protective equipme during operation (gloves, finger cots etc.)	ent		g usage of parts med terminal	
	1. Get the Black Corrugated tube (No slit) ø7, L=297±4mm using right hand then insert the using left hand.													
	n/a  CONNECTOR ORIENTATION					(10	2	Housekeeping  1. Maintain and always practice 5's.  2. Personal things on the workplace is prohibited. Keep it in your locker.		1. No wrong use of connector 2. No damaged connector 3. No wrong insertion 4. One by one insertion 5. No deformed terminal 6. No wrong wire facing  Important reminder/Notes/:				
2	2	Wire insertion to Connector 6188-0407 (W)  1. Hold the connector using left hand. Get the Black/White wire then insert to terminal slot 1 using right hand.  2. Get the Green wire and insert to terminal slot 2.							th	Alert level or any trouble, info le Assembly Assist Supervisor or Line Leader for immedia corrective action.	ant e te	during in 2. Make s inserted. <u>Push</u> afte Do not ex Docum 1. Please for Wire a 2. Please	e hold the wire no sertion. sure wires are propertion. Conduct Pull-Puer insertion. Exert extra force. The refer to WI-PRO and Strip length orefer to GL-PRO Push procedure.	operly <u>ISh-Pull-</u> -CNC-017 tolerance.
				Revision History		ı				T 1			<u>.</u>	
				IZEVISION FIISION						Prepared by	Revi	riewed by	Approved by	Noted by
										_				
07/40/04	0	Initial iss								Okumender A.Hernandez	1/0	illanueva	900	
07/10/24 Eff. Date		ıı ııudı ISS	ue	Details of Change		A.Hernandez Revised	C. Villanueva Reviewed	A. Arañes Approved	n/a Noted	A.Hernandez()  Est. Date:	July 10,		∠ A. \Araĕles	n/a
	INGV. INU			Dotails of Offdrige		IVENISER	. Ve A IE MEG	Approved	140160	LSI. Date.	oury 10,	2027		



			WORK INSTRU	Liftectivity Date: July 10, 2024						
		Process Name/Title:		SSEMBLY PROCE			Validity Date:		n/a	
		Model code/Part number:	311D / 7L0155-7022	Customer: TRQSS	Car Model:	TOYOTA RAV4	Document No.:		WI-ENG-PDE-9	30
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	)	Revision No.:	0	Page No.:	2 of 11
PARTS:	1. Assy	POCESS NAME	WORK PRO	CEDURE/ ILLUSTRA	TION		JIG: TOOLS/PPE	1. Locking jig  QUALITY POINTERS		
3	n/a	Connector lock	NG Double	1. Put the coright hand the hands. Check	Double  Full Lock Con  Innector into I en press 2x t		LOCKING JIG	1. Man damag	portant reminders ual locking may of ted connector loc provided jig per m pocked/half-locked of	cause ck

	_		WORK INS	TRUCTION		Effectivity Date:		July 10, 2024	,
		Process Name/Title:		IG ASSEMBLY PRO	CESS	Validity Date:		n/a	
		Model code/Part number:	311D / 7L0155-7022	Customer: TRQS		V4 Document No.:		WI-ENG-PDE-93	30
		Purpose:	□ PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	0	Page No.:	3 of 11
	1								
	1. Assy 2. Blac	parts c Corrugated tube (with slit	*			JIG:	n/a		
NO.	F	ROCESS NAME	WORK F	PROCEDURE/ ILLUSTI	RATION	TOOLS/PPE	(	QUALITY POIN	TERS
4	n/a	Wire insertion to Black Corrugated tube (with slit) Ø5 L=164±3mm	2. Hold the COT Adaptor with wire slit)  Ø5 L=164±3mm using right hand push the COT (same timing) using	R  R  res using left hand, get the dithen insert to COT adaptor	Black Corrugated tube (w/	COT Adaptor	1. Please measure measure 1. No peel 2. No flip of 3. No loose 4. No wron	-off tape out tape e tape ng use of tape ng dimension	verified

			WOR	K INSTRUCTION			Effectivity Date:	July 10, 2024			
		Process Name/Title:	T/	APING ASSEMBLY PRO	CESS		Validity Date:		n/a		
		Model code/Part number:	311D / 7L0155-702	2 Customer: TRQS	S Car Model: 1	TOYOTA RAV4	Document No.:		WI-ENG-PDE-9	30	
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO		Revision No.:	0	Page No.:	4 of 11	
PARTS:	1. Assy 2. Blac						JIG:	n/a			
NO.	F	PROCESS NAME	WC	ORK PROCEDURE/ ILLUST	RATION		TOOLS/PPE	(	QUALITY POIN	TERS	
5	n/a	Half-wrap Taping	1. Hold the corrugated tube (w/slit) using left hand. Get the black tape using right hand. Conduct 2 windings of tape before shifting using both hands.  3. Check the taping condition.	2. Make 1/2 shifting. Repeat corrugated tube. Make 3 wind	the process until the	e end of ut the tape.	MEASURING TAPE	Impo  1. Please measurin measure: 2. Used I the tape: BLACK: 3. Internashifting s. 1. No flip-c 2. No peel- 3. No loose 4. No miss	rtant reminders/N  use calibrated/ve g tape when gettii ment.  WHITE TAPE to existing, but actual TAPE.  It tolerance for hal hould be 0~14mm  out tape existing tape existing	rified ng the asily visualize should be	



		I	\A	ORK INSTRUCTION		THE STATE DATE:		Il. 40 000	
		Process Name/Title:	VV	TAPING ASSEMBL	V DDOCESS	Effectivity Date: Validity Date:		July 10, 2024 n/a	•
			0440 /71 0455			· ·			
		Model code/Part number:	311D / 7L0155-	7022 Customer:	TRQSS   Car Model: TOYOTA RAV	Document No.:		WI-ENG-PDE-9	30
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	0	Page No.:	6 of 11
							1		
PARTS:	1. Assy 2. Blac					JIG:	n/a		
NO.	F	PROCESS NAME		WORK PROCEDURE/	ILLUSTRATION	TOOLS/PPE	(	QUALITY POIN	TERS
7	n/a	Taping 3 Black Corrugated tube (No slit) to Corrugated tube (w/ slit)	2. Fix the Corrugated tube (No slit) and the Corrugated tube	25±3mm	1. Measure from end of the Corrugated tube (No slit) using both hands.  4. Measure from end of tape up to end of Corrugated tube (No slit) 25±3mm.  5. Measure from end of Corrugated tube (No slit) to end of tape 25±3mm.  After taping, check the measurement and taping condition.	o to	1. Please measure measure 1. No peel- 2. No flip of 3. No loose 4. No wron	off tape out tape e tape g use of tape g dimension	verified

PARTS: TAPING ASSEMBLY PROCESS Validity Obtain: n/a MASSING TOYOTA RAV4 Document No.: WEND-PD-9:00 PRE-AUDICH				WORK INSTRUCTION		Effectivity Date:		July 10, 2024	
PARTS:   1. Assy parts   2. Black VM tube (Supprene) e9, L=97±3mm   NO.   PROCESS NAME   WORK PROCEDURE/ILLUSTRATION   TOOLS/PPE   QUALITY POINTERS    8   Wire insertion to Black VM tube (Supprene) e9, L=97±3mm using right hand then insert the homeled wires (BW-G) using left hand.   1. No wrong use of parts.    1. Assy parts   J. Get the Black VM tube (Supprene) e9, L=97±3mm using right hand then insert the homeled wires (BW-G) using left hand.   1. No wrong use of parts.    1. No wrong use of parts   Important reminders/Notes   1. Please use calibrated/verified measurement.   1. No peacht tape when fetting the measurement.   1. No peacht tape   2. No lips out tape   3. No loces tape   3. No loces tape   4. No wrong use of tape   4. No wrong use of tape   5. No wrong dimension   5. No wrong dimension   6. No missing tape   5. No wrong dimension   6. No missing tape   5. No wrong tape   5. No wrong dimension   6. No missing tape   6. No wrong dimension			Process Name/Title:			Validity Date:		n/a	
PARTS: 1. Assy perts 2. Black VM tube (Sunprene) a9, L=97±3mm  NO. PROCESS NAME  WORK PROCEDURE/ ILLUSTRATION  1. Get the Black VM tube (Sunprene) a9, L=97±3mm  1. Get the Black VM tube (Sunprene) a9, L=97±3mm using right hand then insert the homeled wires (B.WG) using left hand.  1. No wrong use of parts.  Important reminders/Notes  1. Measure the and of VM tube (Sunprene) using left hand.  1. No peel-off tape 2. No fip out tape 2. No fip out tape 1. No wrong use tape 4. No wrong use of tape 5. No wrong dimension 6. No missing tape			Model code/Part number:	<b>311D / 7L0155-7022</b> Customer:	TRQSS   Car Model: TOYOTA RAV4	Document No.:		WI-ENG-PDE-93	0
NO. PROCESS NAME  Wire insertion to Black VM tube (Sunprene) e9, L=97±3mm  1. Get the Black VM tube (Sunprene) e9, L=97±3mm using right hand then insert the hotmelted wires (BAW-G) using left hand.  1. No wrong use of parts.  Important reminders/Notes 1. Please use calibrated/verified measuring tape when fetting the measurement.  1. Measure the end of VM tube (Sunprene) up to hotmelted wires L=31±3mm.  1. No peel-off tape 2. Hold the VM tube (Sunprene) using left hand, get the Black tape then start taping using right hand.  MEASURING TAPE 1. No peel-off tape 2. No lip out tape 3. No loose tape 4. No wrong use of parts.  1. No peel-off tape 2. No lip out tape 3. No loose tape 4. No wrong use of tape 5. No wrong use of parts.  3. After taping, check the			Purpose:	PROTOTYPE PRE-LAUNCH	MASSPRO	Revision No.:	0	Page No.:	7 of 11
NO. PROCESS NAME  Wire insertion to Black VM tube (Sunprene) e.9. L=97±3mm using right hand then insert the homelited wires (BW-G) using light hand.  1. Cet the Black VM tube (Sunprene) e.9. L=97±3mm using right hand then insert the homelited wires (BW-G) using light hand.  1. No wrong use of parts.  Important reminders/Notes  1. Please use calibrated/verified measuring tape when fetting the measuring tape when	PARTS:			L=97±3mm		JIG:	n/a		
1. Get the Black VM tube (Sunprene) e9, L=97±3mm using right hand then insert the hormelted wires (B.WG) using left hand.  1. No wrong use of parts.  1. Please use calibrated/verified measuring tape when fetting the measurement.  2. Hold the VM tube (Sunprene) using left hand, get the Black tape then start taping using right hand.  2. Hold the VM tube (Sunprene) using left hand, get the Black tape then start taping using right hand.  3. After taping, check the	NO.				LLUSTRATION	TOOLS/PPE		QUALITY POINT	ERS
Taping 4 Black Corrugated tube to VM tube (Sunprene)  1. Measure the end of VM tube (Sunprene)  2. Hold the VM tube (Sunprene) using left hand, get the Black tape then start taping using right hand.  8  3. After taping, check the			Wire insertion to Black VM tube (Sunprene) ø9,	1. L=	Get the Black VM tube (Sunprene) ø9,				
	9	n/a	Black Corrugated tube	1. Measure the end of VM tube (Sunprene) up to hotmelted wires L=31±3mm.  25±3mm 31±3mm 31±3mm	2. Hold the VM tube (Sunprene) using left hand, get the Black tape then start taping using right hand.  R  3. After taping, check the	678940123456789	1. Please measurin measure  1. No peel- 2. No flip o 3. No loose 4. No wron 5. No wron	e use calibrated/ve ng tape when fettin ment.  off tape ut tape tape g use of tape g dimension	rified

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		Model code/Part number:				Document No.:		WI-ENG-PDE-9	30	
		Purpose:	□РКОТОТУРЕ	PRE-LAUNCH	□MASSPRO	Revision No.:	0	Page No.:	8 of 11	
PARTS:	1. Clan 2. Clan	np 82711-48210 (B) np 82711-33650 (B)	3. Clamp 82711-3A540 (W) 3. Black tape [4pcs]  JIG:				n/a			
NO.	F	PROCESS NAME	WORK PRO	CEDURE/ ILLUSTR	ATION	TOOLS/PPE	(	QUALITY POIN	TERS	
10	n/a	Clamp Settings	1. Get 1pc of clamp 82711-3A540 (W) using set to Clamp location no. 1 using both hands  2. Get 1pc of clamp 82711-48210 (B) using set to Clamp location no. 2 and 3 using both	ng right hand then	3. Get 1pc of clamp 82711-33650 (B set to Clamp location no. 4 using bot both hands.	using right hand then h hands.	1. Please before wrong Import 1. Make stopper 2. Make taping. 1. No loose 2. No dama 3. No miss	CLAMP ILLUSTRATION	mp first v to avoid  /Note/s: ween v clamp  amp	

WORK INSTRUCTION Effectivity Date: July 10, 2024 Process Name/Title: TAPING ASSEMBLY PROCESS Validity Date: n/a											
		Process Name/Title:	TAP	ING ASSEMBLY PRO	CESS	Validity Date:		n/a			
		Model code/Part number:	311D / 7L0155-7022	Customer: TRQS	S Car Model: TOYOTA RAV4	Document No.:		WI-ENG-PDE-93	30		
		Purpose:	□РКОТОТУРЕ	PRE-LAUNCH	MASSPRO	Revision No.:	0	Page No.:	9 of 11		
PARTS:	1. Assy 2. Blac	parts < tape [4pcs]		JIG:	1. Tempora						
NO.	F	ROCESS NAME	WORK	K PROCEDURE/ ILLUST	RATION	TOOLS/PPE	C	QUALITY POINT	ERS		
11	n/a	Clamp Assembly	Stopper jig  827  Stopper jig  7 8 9 80 7 8 9 80 1 2 3 3 6 0 7 8 9 80 1 2 3 3 8 0 7 8 9 8 9 8 9 9 8 9 8 9 9 8 9 8 9 9 9 8 9 8 9 9 8 9 9 9 9 9 9 9 9 9 9 9	and then set into jig using bot receiver base 1. Continue set y the toggle clamp.  Ition no. 1 using right sing both hands then cut n 2.  Ition no. 2 using right hand. With hands then cut the	82711-48210 (B)  1 2 1 1 2 1 h hands. (See above picture for the cetting the harness in jig. Last, set the heat Make 3 windings of tape using both Make 3 windings of tape using both the harness from jig	orrect setting). First put otmelted wires (B/W-G) on no. 4 using right hand. hands then cut the tape.	1. Please before so avoid wr  1. No wrong 2. No wrong 3. No damage.		o first embly to		

WORK INSTRUCTION Effectivity Date:									July 10, 2024		
		Process Name/Title:		ING ASSEMBLY PI	ROCESS			Validity Date:		n/a	
		Model code/Part number:	311D / 7L0155-7022	Customer: TRG		TOYO	ΓA RAV4	Document No.:		WI-ENG-PDE-9	930
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PARTS:	n/a							JIG:	n/a		
NO.	F	PROCESS NAME	WOR	K PROCEDURE/ ILLU	STRATION			TOOLS/PPE	(	QUALITY POIN	TERS
12	n/a	Measurement	(6) 195±3  (2) 108±3 (3) 20 *5 (4) 25±3 (5) 25±3  NOTE: (A) - Taping (B) (B) - Clamp (B) (C) - Clamp (W) (3) - Dimension overlapped COT &		A Z	) Ha	<u>COT (B) Ø7 No Sl</u> If Wrap		1. Pleas measuri measuri 2. For H Owarim Docum 1. Pleas Sub-Ass	tant reminders/N e use calibrated/ ing tape when fet ement. atsumono, Nakai	verified ting the mono and -ASY-056 for

		WORK IN	STRUCTION		Effectivity Date:		July 10, 2024	4
	Process Name/Title:	TAPIN	IG ASSEMBLY PRO	DCESS	Validity Date:		n/a	
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PARTS: n/a					JIG:	n/a		
		VI	SUAL INSPECTION/Q	UALITY CHECKPOINTS				
n/a GOO		1) ORIEN	3	4	5		6	
NO GC	OD		(3)(4	1)(5) No MISS	ING CLAN	ЛP		
1 (2	) No UNLC	NG INSERT OCKED/HALFI NAL BACKING (			SING TAPI		IT	