					WORK INSTRU					Effecti	vity Date:		December 18	, 2023
			Process Name/Title:		TAPING A			Validit	y Date:		n/a			
	-11		Model code/Part number:	930B /	7N0204-7020	Customer: TRJ	Car Model:	TOYOT	A-4 RUNNER	Docum	nent No.:		WI-ENG-PDE	-774
			Purpose:	PROTOTYPE		PRE-LAUNCH	☐ MASS	PRO		Revisi	on No.:	0	Page No.:	1 of 16
PARTS:	1 2	I. Conr 2. AVS	nector 6188-0066 (GR) Sf Y-OR L=364±2mm)								JIG:	n/a		
NC).	F	PROCESS NAME		WORK PRO	CEDURE/ ILLUSTRA	TION				TOOLS/PPE		QUALITY POI	NTERS
1		P1	Wire insertion to connector 6188-0066 (GR)		DRIENTATION	VISUAL REFERENCE R 2. Hold the co	ennector us		Orange R	Sal properties of the properti	fety Instruction Be sure to wear escribed personal during operation yes, finger cots, of the cots of t	on 1. Pl 2. Mainse Continse etc.) Do n 1. Re Push 2. Re and 3 1. No 2. No 3. On 4. No 5. No eate	ortant reminders, ease hold the wire r lke sure wires are p ted. luct Pull-Push-Pull-	/Note/s: lear terminal. properly Push after 5: -029 for Pull- 017 for Wire loce
					Revision History						Prepared by	Reviewed b	Approved by	Noted by
											_			
12/18/23	0 lr	nitial iss	ue				D.Castillo	C. Villanueva	A. Arañes r	ı/a	D. Castillo	of out of out	A A A Parago	n/a
Eff. Date F				Details of Cha	nge		Revised	Reviewed			Est. Date:	December 18,	·	ı ı/a
1	ı							ı	I I					



				WORK INSTRUC			Effectivity Date:		December 18, 20	023
		Process Name/Title:		TAPING ASS	SEMBLY PROCE	SS	Validity Date:		n/a	
		Model code/Part number:	930B /	7N0204-7020 Cu	ustomer: TRJ	Car Model: TOYOTA-4 RUNNER	Document No.:		WI-ENG-PDE-77	'4
		Purpose:	PROTOTYPE	■ PR	E-LAUNCH	MASSPRO	Revision No.:	0	Page No.:	2 of 16
PARTS:	1. Assy 2. Black	parts corrugated tube ø7 L=45:	Ŀ3mm (No slit)	3.	Black corrugated tube	ø5 L=266±4mm (No slit)	JIG:	n/a		
NO.	Р	ROCESS NAME		WORK PROCE	DURE/ ILLUSTRA	TION	TOOLS/PPE	(QUALITY POINT	ERS
2		Wire insertion to Black corrugated tube ø7 L=45±3mm (No slit)	L		R	1.Get the Black corrugated tube ø7 L=45±3mm (No slit) using right hand and insert Yellow wire and Orange wire by using left hand.			g use of parts med terminal	
3	P1	Wire insertion to Black corrugated tube ø5 L=266±4mm (No slit)	L	Ø7 L= 45±3mm	Ø5 L= 266±4n				g use of parts s left between COT	with slit



				WORK INSTR	RUCTION		Effectivity Date:		December 18, 2	2023
		Process Name/Title:		TAPING	ASSEMBLY PRO	OCESS	Validity Date:		n/a	
		Model code/Part number:	930B /	7N0204-7020	Customer: TR	J Car Model: TOYOTA-4 RUNNER	Document No.:		WI-ENG-PDE-7	74
		Purpose:	PROTOTYPE		PRE-LAUNCH	MASSPRO	Revision No.:	0	Page No.:	3 of 16
PARTS:		nector 6189-1161 (B)					JIG:	n/a		
NO.	F	ROCESS NAME		WORK PR	OCEDURE/ ILLUS	TRATION	TOOLS/PPE	(QUALITY POIN	TERS
4	P1	Wire insertion to connector 6189-1161 (B)	CONNE ORIENT. 1. Get the connect the Yellow wire airight hand.			Orange R d the connector using left hand. Get the wire and insert to connector using	n/a	1. Pleas 2. Make inserted Conduct insertion Do not Docum 1. Refer Push pre 1. No loose 2. No wron 3. One by 4. No defo	ct Pull-Push-Pull-ion. exert extra force. ent references. to GL-PRO-ASY-Cocedure.	ear terminal. roperly Push after

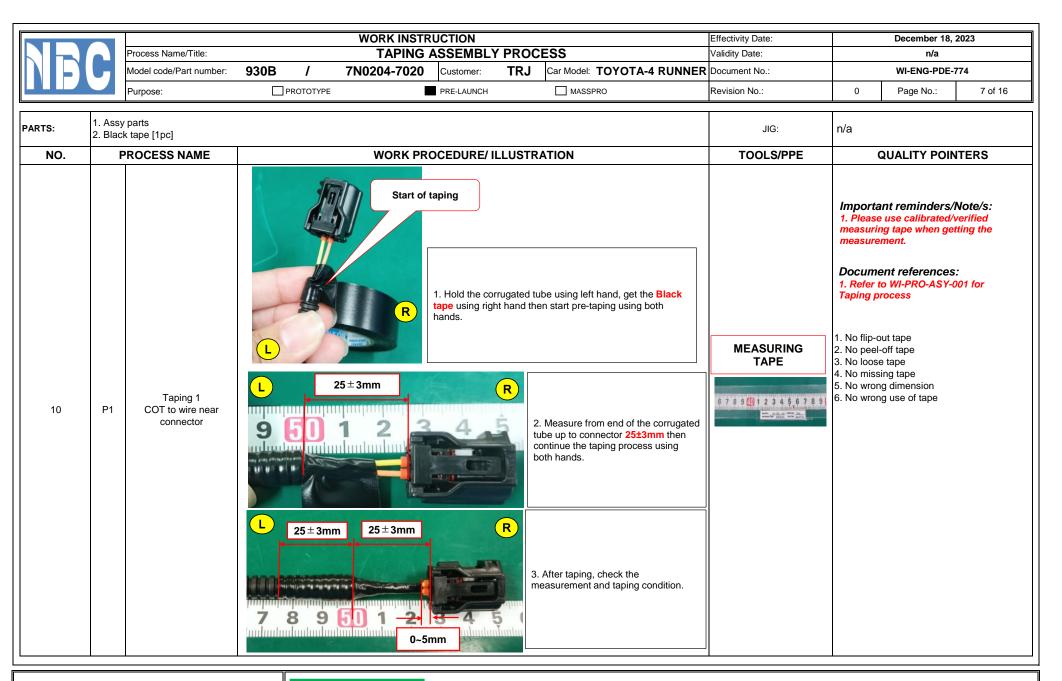


				WORK INSTR				Effectivity Date:		December 18, 2	2023
		Process Name/Title:		TAPING	ASSEMBLY P	ROCESS		Validity Date:		n/a	
		Model code/Part number:	930B /	7N0204-7020	Customer: T	'RJ Car Model: TO	YOTA-4 RUNNER	Document No.:		WI-ENG-PDE-7	74
		Purpose:	PROTOTYPE		PRE-LAUNCH	MASSPRO		Revision No.:	0	Page No.:	4 of 16
PARTS:	1. Assy 2. MRS	parts SW CP (TVSSf 0.3 G-B/W	wires L=628±3mm)		3. Black corrugat	ed tube ø7 L=510±5mi	m (No slit)	JIG:	1. Locking j	ig	
NO.	F	PROCESS NAME		WORK PR	OCEDURE/ ILLU	ISTRATION		TOOLS/PPE	(QUALITY POIN	TERS
5		Connector lock	1. Put the connectousing both hands a 2x. Check the conrocked.	or into locking jig	Unlock Condition BEFORE PF	NG Half Lock Condition RESSING AFTER	GOOD Full Lock Condition R PRESSING	LOCKING JIG	1. MAN DAMAG	ent reminders/Not UAL LOCKING M BED CONNECTOR provided jig tool to ck/half-locked con	AY CAUSE
6	P1	Wire insertion to Black corrugated tube ø7 L=510±5mm (No slit)	L		A B B B B B B B	1. Get the MRSW CP wires L=628±3mm) uthen insert the terminaright hand. 2. Get the Black corrulation (No slit) then insert the wires use.	ugated tube ø7	TERMINAL COVER JIG	Refer and Stri No wron	nent references to WI-PRO-CNC- p Length Toleran g usage of parts aged rubber seal	017 for Wire

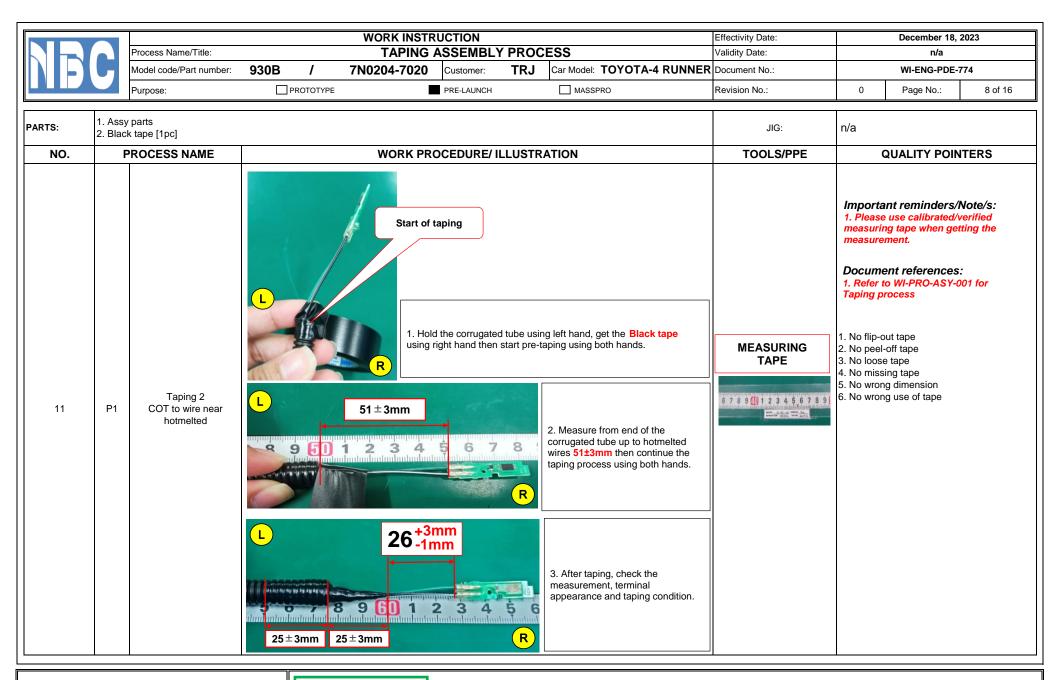
				WORK INSTR	RUCTION			Effectivity Date:	T	December 18, 2	2023
		Process Name/Title:		TAPING	ASSEMBLY PRO	CESS		Validity Date:		n/a	
PARTS: 1. Assy pa	Model code/Part number:	930B /	7N0204-7020	Customer: TR.	Car Model: TOYOTA	A-4 RUNNER	Document No.:		WI-ENG-PDE-7	74	
		Purpose:	PROTOTYPE		PRE-LAUNCH	MASSPRO		Revision No.:	0	Page No.:	5 of 16
PARTS:	1. Assy	parts						JIG:	n/a		
NO.	P	ROCESS NAME		WORK PR	OCEDURE/ ILLUST	RATION		TOOLS/PPE	(QUALITY POIN	TERS
7		Wire insertion to assy parts (Black corrugated tube	L		left hand	the COT (no slit) Ø7 L=45: d then insert the MRSW CF wires L=628±3mm using r	P TVSSf 0.3	n/a		ng usage of parts aged rubber seal	
		ø7 L=45±3mm (No slit))	L		2. After right ha	insertion, remove the cove nd.	er jig using		2. No dain	ageu rubbei seai	
	P1		CONNECTOR	ORIENTATION	1 2	WIRE F	FACING		4. No defo		
0		Wire insertion to			VISUAL REFERE	NCE		7/0		tant reminders/	
8		connector 6188-0066 (GR)	L 1 Green	1. Hold the connected using left and hold Green with insert to connected right han	or part it hand it the irre then or using	Black/White using left hold the then inse	the connector ft hand and Orange wire ert to or using right	n/a	2. Make inserted Conductinsertion Do not a Docum 1. Refer	t Pull-Push-Pull-l	roperly Push after

				WORK INSTR	UCTION				Effectivity Date:	T	December 18, 2	2023
		Process Name/Title:		TAPING /	ASSEMBLY P	ROCI	ESS		Validity Date:		n/a	
		Model code/Part number:	930B /	7N0204-7020			1	TOYOTA-4 RUNNER	Document No.:		WI-ENG-PDE-7	74
		Purpose:	PROTOTYPE		PRE-LAUNCH		☐ MASSP	PRO	Revision No.:	0	Page No.:	6 of 16
PARTS:	1. Assy 2. Black	parts k tape [1pc]							JIG:	n/a		
NO.	P	ROCESS NAME		WORK PRO	OCEDURE/ ILLU	USTR#	ATION		TOOLS/PPE	(QUALITY POIN	TERS
9	P1	Connector lock	Before pres	ector Cross S	and then conduproperly locked After pressing GOO Full L Full L	ew OD	ito locking jig ressing. Che	g using both hands eck the connector if	LOCKING JIG	1. MA DAMA	ortant reminder NUAL LOCKING AGED CONNECTO ck/half-locked con age connector	MAY CAUSE OR









				WORK INSTRUC	TION		Effectivity Date:		December 18, 2	023
		Process Name/Title:		TAPING ASS	SEMBLY PROC	ESS	Validity Date:		n/a	
		Model code/Part number:	930B /	7N0204-7020 Cu	ustomer: TRJ	Car Model: TOYOTA-4 RUNNER	Document No.:		WI-ENG-PDE-7	74
		Purpose:	PROTOTYPE	■ PR	RE-LAUNCH	MASSPRO	Revision No.:	0	Page No.:	9 of 16
PARTS:	1. Assy 2. Black	parts k tape [1pc]					JIG:	n/a		
NO.	P	ROCESS NAME		WORK PROCE	DURE/ ILLUSTR	ATION	TOOLS/PPE	(QUALITY POIN	TERS
12	P1	Y-taping	taping did	25 ± 3mm	1. Fix the co	orrugated tube. Ing at the middle of combined tubes, then winding the tape going to did tubes, width must be Tape width. The tape 1/3 shifting until it reach the corrugated tube, width must be The shifting 9mm below The shifting going to other side of encut the tape. After taping, check	MEASURING TAPE 6 7 8 9 1 1 2 3 4 5 6 7 8 9	1. Use YI visualiza actual shape measuring measure Docume 1. Refer to process 1. No flip-c2. No peel 3. No loos 4. No miss 5. No wron	ent references: to WI-PRO-ASY-0t put tape -off tape e tape	easy les, but <u>'APE.</u> erified ing the



				WORK INSTR			Effectivity Date:		December 18, 20	023
		Process Name/Title:		TAPING	ASSEMBLY PRO	CESS	Validity Date:		n/a	
		Model code/Part number:	930B /	7N0204-7020	Customer: TRJ	Car Model: TOYOTA-4 RUNNER	Document No.:		WI-ENG-PDE-77	74
		Purpose:	PROTOTYPE		PRE-LAUNCH	MASSPRO	Revision No.:	0	Page No.:	10 of 16
PARTS:	1. Blac 2. Clan	k tape [6pcs] np 82711-33650 (B)			3. Clamp 82711-3A6 4. Clamp 82711-482		JIG:	1. Tempora	ary jig	
NO.	F	PROCESS NAME		WORK PR	OCEDURE/ ILLUST	RATION	TOOLS/PPE	(QUALITY POINT	rers
13	P1	Clamp Setting	2. Get 1pc of clamp and 3. Get 1pc of clamp and 3.	82711-48210 (B) usi 82711-3A640 (B) usi 82711-33650 (B) usi	sing right hand and set to	82711-33650 (B) o clamp location 1,2,4 and 5 using o clamp location 3 using both hands. clamp location 6 using both hands.		1. Pleas before s wrong t 1. No wron 2. No wron 3. No dama 4. No wron	tant reminders/se check the Clamstart of assembly use of clamp. Ig use of parts g use of tape aged clamp g clamp position One side tape under	p first to avoid

				WORK INST	RUCTION			Effectivity Date:	T	December 18,	2023
		Process Name/Title:		TAPING	S ASSEMBLY PRO	CESS		Validity Date:		n/a	
		Model code/Part number:	930B /	7N0204-7020	Customer: TR	J Car Model:	: TOYOTA-4 RUNNER	Document No.:		WI-ENG-PDE-7	774
		Purpose:	PROTOTYPE		PRE-LAUNCH	MASS	SPRO	Revision No.:	0	Page No.:	11 of 16
PARTS:	1. Assy 2. Black	parts k tape [6pcs]						JIG:	1. Tempor	ary jig	
NO.	F	ROCESS NAME		WORK P	ROCEDURE/ ILLUS	RATION		TOOLS/PPE	1	QUALITY POIN	TERS
14	P1	Clamp Assembly	82711-3A640 (B) Hook ConnectorSettir COT 2 1	1. Put the First, set the conne jig. Last, s COT 1 2. lot ta N 7. COT 1 3. lot ta N 7. Note the First, set the conne jig. Last, s	assy into jig. (See abov	gs of 4. Afte locating 2 and	iver base 1. Second, set ue to set the harness in	n/a	1. Ma and s 1. No wror 2. No wror 3. No dam	ortant reminder the sure no gap be topper jig and use of tape aged clamp aged aged aged aged aged aged aged aged	

				WORK INSTR	UCTION			Effectivity Date:		December 18, 2	2023
		Process Name/Title:			ASSEMBLY PRO	:FSS		Validity Date:	 	n/a	
		Model code/Part number:	930B /	7N0204-7020	Customer: TRJ		TOYOTA-4 RUNNER	•		WI-ENG-PDE-7	74
		Purpose:	PROTOTYPE		PRE-LAUNCH	MASSPR	RO	Revision No.:	0	Page No.:	12 of 16
PARTS:	1. Assy 2. Black	parts c tape [6pcs]						JIG:	1. Tempora	ary jig	
NO.	P	ROCESS NAME		WORK PRO	OCEDURE/ ILLUSTR	RATION		TOOLS/PPE	(QUALITY POIN	TERS
14	P1	Clamp Assembly (Continuation)	6. Hold the tape on hands. 8. Hold the tape on	clamp location 1 and 2 clamp location 3, make	2, make 3 windings of tage 3 windings of tage 3 windings of tage the moving the harness from	ape then cut the en cut the tape ape then cut the tape	using both hands. e tape using both		1. No wron 2. No wron 3. No dam	ortant reminder ke sure no gap be topper jig ng use of parts ng use of tape aged clamp ng clamp position	s/Note/s: etween terminal

				WORK INSTRUCTION			Effectivity Date:		December 18, 2	023
NBC		Process Name/Title:		TAPING ASSEMB	LY PRO	CESS	Validity Date:		n/a	
		Model code/Part number:	930B /	7N0204-7020 Customer:	TRJ		Document No.:		WI-ENG-PDE-7	74
		Purpose:	PROTOTYPE	PRE-LAUNC		MASSPRO	Revision No.:	0	Page No.:	13 of 16
	I									
PARTS:	1. Assy 2. Engi	parts neering sample					JIG:	n/a		
NO.	F	PROCESS NAME		WORK PROCEDURE	/ ILLUSTI	RATION	TOOLS/PPE	(QUALITY POIN	TERS
15	P1	Visual/By Two's Inspection	Assembled parts 1. Conduct alignmentarness (Master sa Assembled parts) uboth hands.	mple vs. 3. Check the preser	ce of clam	con	ACTUAL PRODUCT heck the connector lock dition, insertion and hinal.	Section 1	GINEERING SA	

				WORK INSTI	RUCTION			Effectivity Date:		December 18,	2023
		Process Name/Title:			ASSEMBLY	PROC	ESS	Validity Date:		n/a	
		Model code/Part number:	930B /	7N0204-7020	Customer:	TRJ	Car Model: TOYOTA-4 RUNNE			WI-ENG-PDE-7	74
		Purpose:	PROTOTY		PRE-LAUNCH		MASSPRO	Revision No.:	0	Page No.:	14 of 16
	1										
PARTS:	1. Assy 2. Engi	parts neering sample						JIG:	n/a		
NO.	F	PROCESS NAME		WORK PR	OCEDURE/ IL	LUSTRA	ATION	TOOLS/PPE	(QUALITY POIN	TERS
15	P1	Visual/By Two's Inspection (Continuation)	4. Check the Taping cond	presence of clamp attation.	chment, taping	condition	and 5. Check the appearance of	ACTUAL PRODUCT Apping condition and f PCB.	1. No wror 2. No wror 3. No dam	ng use of parts aguse of tape aged clamp ag clamp position	AMPLE

PARTS: 1. Assy parts NO. PROCESS NAME WORK PROCEDURE/ ILLUSTRATION MEASURING TAPE 1. Assy parts MEASURING TAPE 2. Ov Do 1. F. asss Ow	December 18, 2023			
Model code/Part number: 930B	n/a			
PARTS: 1. Assy parts NO. PROCESS NAME WORK PROCEDURE/ ILLUSTRATION MEASURING TAPE 1. Assy parts MEASURING TAPE 2. ON DO 1. F. assy OW	WI-ENG-PDE-774			
NO. PROCESS NAME WORK PROCEDURE/ ILLUSTRATION TOOLS/PPE MEASURING TAPE 2. Ov Do 1. F ass Ow	0 Page No.: 15 of 16			
MEASURING TAPE Impart of the second of the	n/a			
TAPE 1. tap 6 7 8 9 10 1 2 3 4 5 6 7 8 9 Out Do 1. F ass Ow	QUALITY POINTERS			
208±3mm 80±3mm 0-5mm 197±3mm 197±3mm	Important reminders and note/s: 1. Please use calibrated/verified measuring tape when getting the measurement. 2. For Hatsumono, Nakamono and Owarimono. Document reference/s: 1. Refer to WI-PRO-ASY-056 for Subassembly Hatsumono Nakamono Owarimono Inspection 1. No wrong dimension			

NB	C	WORK INSTRUCTION							Effectivity Date:	December 18, 2023		
		Process Name/Title: TAPING ASSEMBLY PROCESS							Validity Date:	n/a		
		Model code/Part number:	930B	1	7N0204-7020	Customer:	TRJ	Car Model: TOYOTA-4 RUNNER	Document No.:	WI-ENG-PDE-774		
		Purpose:	□Р	ROTOTYPE		PRE-LAUNCH		MASSPRO	Revision No.:	0	Page No.:	16 of 16
PARTS:	1. Assy	parts							JIG:	n/a		

QUALITY CHECKPOINTS

P1

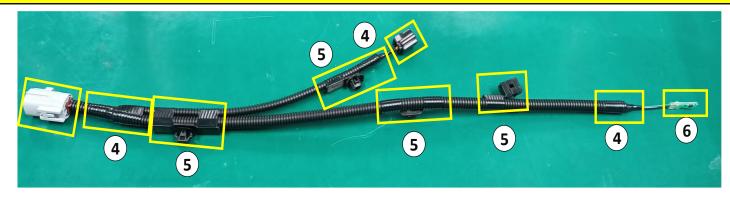
7N0204-7020



NO GOOD



GOOD



- 1 No Unlock/ Halflocked Connector
- 2 No Wrong Insert
- **3** No Terminal Backing Out

- 4 No Missing tape
- **5** No Missing clamp (4pcs)
- **6** No Deformed Hotmelted















NO GOOD

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