	WORK INSTRUCTION Effectivity Date: October 21, 2023											
			Process Name/Title:	TAP	ING ASSEMBLY PRO	CESS		Validi	ty Date:		n/a	
			Model code/Part number:	930B / 75S136-0020	Customer: TRJ	Car Model: TOYOT	A 4RUNNEF	Docui	ment No.:		WI-ENG-PD-7	19
			Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO		Revis	ion No.:	1	Page No.:	1 of 17
PARTS:		GR/B L L=156± L=114±	=154±2mm; LG L=285±2m 2mm; G L=156±2mm; BR 3mm	ocs.]; Connector 1746872-1 (B); AVSS im; R/W L=285±2mm; B/W L=285±2m L=156±2mm; GR L=156±2mm; Black \	m; OR L=285±2mm; R/L L=26 VM tube(sunprene) Ø8 L=112	35±2mm; AVSS 0.3 P L= ±3mm; Green VM tube (s	156±2mm; W/G		JIG:	1. Insertion		TEDE
NC).	P	ROCESS NAME	WOR	K PROCEDURE/ ILLUST	RATION			TOOLS/PPE	'	QUALITY POIN	IIERS
1		P1	Table Lay-out	Connector 1746872-1 (B) Master sample Insertion jig B	m '	ayer Navigator Green VI (sunprer L=114±3)	ne) ø8	. pr	Bafety Instruction Be sure to wear required personal otective equipmed during operation gloves, finger cotect.) Housekeeping Maintain and alway practice 5's. Personal things the workplace is ohibited. Keep it your locker. Alert level rany trouble, infort Assembly Assist Supervisor or Line adder for immedia corrective action.	ays 1. No defo 2. No wror rm ant ete	rmed terminal ng usage of parts	
				Revision History	У				Prepared by	Reviewed by	Approved by	Noted by
10/21/2023			re laucnh to mass pro and inclusion	on of table lay-out.		A.Hernandez J.Loterte		Arañes	ahmandez	Shot =	fout for	-
I -						1	Arañes	A.Hernandez U	J.Loterte	C. Villanueva	/ A Aralijes	
Eii. Date	f. Details of Change Revised Revised Approved Noted Est. Date: September 02, 2023											



			WORK IN	Effectivity Date:					
		Process Name/Title:	TAP	ING ASSEMBLY PRO	OCESS	Validity Date:		n/a	
		Model code/Part number:	930B / 75S136-0020	Customer: TRJ	Car Model: TOYOTA 4RUNNER	Document No.:		WI-ENG-PD-7	19
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	2 of 17
PARTS:	1. Con	nector PBVP-10V-S (W) [2	ocs.]			JIG:	1. Insertior	jig	
NO.	F	PROCESS NAME	WORK	K PROCEDURE/ ILLUST	TRATION	TOOLS/PPE	(QUALITY POIN	TERS
2	P1	Connector setting to insertion jig PBVP-10V-S (W)	Lower 1.0 train No.	al reference er guide Get the 2 pcs of PBVP-10V- insfer the 1 connector orion Connector orion Connector orion Pres Ower guide using left hand in	Press Ø8	N/A	No wronNo wron	provided jig per m g usage of parts g orientation of co aged connector	

				INSTRUCTION		Effectivity Date:		October 21, 20	23
		Process Name/Title:		PING ASSEMBLY PRO	-	Validity Date:		n/a	
		Model code/Part number:	930B / 75S136-0020	Customer: TRJ	Car Model: TOYOTA 4RUNNER	Document No.:		WI-ENG-PD-7	19
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	3 of 17
PARTS:	L=285:	S 0.3 R L=154±2mm; V L= £2mm; OR L=285±2mm; R/ k VM tube(sunprene) ø8 L=	L L=285±2mm;	±2mm; GR/B L=154±2mm; LG L	=285±2mm; R/W L=285±2mm; B/W	JIG:	1. Insertion	jig	
NO.	F	PROCESS NAME	WOI	RK PROCEDURE/ ILLUST	RATION	TOOLS/PPE	(QUALITY POIN	TERS
3	P1	Wire insertion to Connector PBVP-10V-S (W)	1. Get the R/L wire using right hat LG-GR/B-B-Y-V-R wires. Note: Follow the insertion sequence.	1 2 3 R/L OR B/W 285 285 285 and and insert to connector. Representations of the connector	·	STEERING NAVIGATION(2 layer) CONTROLLER	2. No wron 3. One by 0 4. No wron 5. No defor 6. No stuck Importa 1. Pleas during in 2. Make Conduct insertion Do not e Docume 1. Refer Steering 2. Refer and Strip	med terminal to of terminal tip Int reminders/Note to hold the wire new sertion. Sure wires are propull-Push-Pull-Pu texert extra force. The Wi-ENG-PDE- Navigation Control to WI-PRO-CNC- to U-PRO-CNC- to Length Tolerance to GL-PRO-ASY-	te/s: ar terminal operly inserted. ush after 044 for oller procedure. 017 for Wire
4		Wire insertion to Black VM tube (sunprene) ø8 L=112±3mm		R	1. Get the Black VM tube (Sunprene) ø8 L=112±3mm using left hand and transfer to right hand. Hold the wires using left hand and insert the wires using right hand.	N/A		g usage of parts med terminal ed wires	

			WORK IN	STRUCTION		Effectivity Date:		October 21, 202	23
		Process Name/Title:	TAPIN	NG ASSEMBLY PRO	CESS	Validity Date:		n/a	
		Model code/Part number:	930B / 75S136-0020	Customer: TRJ	Car Model: TOYOTA 4RUNNER	Document No.:		WI-ENG-PD-71	9
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	4 of 17
PARTS:		0.3 R L=154±2mm; V L=154 35±2mm; R/L L=285±2mm;	±2mm; Y L=154±2mm; B L=154±2mm; GR	/B L=154±2mm; LG L=285±2m	m; R/W L=285±2mm; B/W L=285±2mm;	JIG:	1. Insertion j	jig	
NO.	Р	ROCESS NAME	WORK	PROCEDURE/ ILLUSTE	RATION	TOOLS/PPE	C	QUALITY POINT	ΓERS
5	P1	Wire insertion to connector PBVP-10V-S (W) (Continuation)	BACK VIEW OF TERMINAL GOOD Terminal condition Note: *Make sure the terminal wa *Avoid hitting the terminal	into the connector during	Damaged terminal NO GOOD Terminal condition	NO GOOD Terminal codition	2. No wrong 3. No wrong 4. No deform 5. No stuck of 6. One by or Impor 1. Ma insert Push Do no 2. Plea termir 3. Aut replac encou difficulocked 4. Inse left to Docur 1. Refe Wire a 2. Refe Steerin procee 3. Refe Pull-P 4. Refe	ned terminal of terminal of terminal tip ne insertion retant reminders/N like sure wires are ted. Conduct <u>Pull</u> after insertion. In the exert extra force as a hold the wire to matically dispose the unit if once untered bend termility of insertion and connector. In the error of wires must right. In the error will be the error of wires must reference of the error of wires must right. In the error will be to WI-PRO-CNC and Strip Length 1 are to WI-ENG-PDE in Navigation Codure. In the error of L-PRO-AS with the error of L-PRO-AS with the error of	e properly -Push-Pull- e. s near on. se and ininal, ind half- ust be from C-017 for Folerance. E-044 for introller Y-029 for

			WORK INS	Effectivity Date: October 21, 2023		23			
		Process Name/Title:		IG ASSEMBLY PR	OCESS	Validity Date:		n/a	
		Model code/Part number:	930B / 75S136-0020	Customer: TRJ	Car Model: TOYOTA 4RUNNER	-		WI-ENG-PD-7	19
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	5 of 17
PARTS:	1. AVS	S 0.3 P L=156±2mm; W/G	L=156±2mm; G L=156±2mm; BR L=156:	±2mm; GR L=156±2mm		JIG:	1. Insertior	ı jig	
NO.	F	PROCESS NAME	WORK	PROCEDURE/ ILLUS	TRATION	TOOLS/PPE	(QUALITY POIN	TERS
6	P1	Wire insertion to Connector PBVP-10V-S (W)	1. Get the GR wire using the BR-G-W/G-P wires. Note: Follow the insertice.	Note: Holes that open. Lower guide	nnector. Repeat the process for	STEERING NAVIGATION(2 layer)	2. No wron 3. One by 4. No wron 5. No defo 6. No stuci Importan 1. Please during ins 2. Make s Conduct insertion. Do not ex Docume 1. Refer Steering 2. Refer t and Strip	at reminal tip at reminders/Note hold the wire nea sertion. sure wires are prop Pull-Push-Pull-Pus tert extra force. at References: to WI-ENG-PDE-(Navigation Contro o WI-PRO-CNC-0 Length Tolerance o GL-PRO-ASY-0	v/s: r terminal perly inserted. sh after 044 for ller procedure. 17 for Wire

				ISTRUCTION		Effectivity Date:		October 21, 202	23
		Process Name/Title:		NG ASSEMBLY PRO		Validity Date:		n/a	
		Model code/Part number:	930B / 75S136-0020	Customer: TRJ	Car Model: TOYOTA 4RUNNER	Document No.:		WI-ENG-PD-71	9
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	6 of 17
						<u> </u>		•	
PARTS:	1. AVSS	S 0.3 P L=156±2mm; W/G L=1	156±2mm; G L=156±2mm; BR L=156±2mm	n; GR L=156±2mm		JIG:	1. Insertion j	ig	
NO.	F	ROCESS NAME	WORK	PROCEDURE/ ILLUST	RATION	TOOLS/PPE	C	QUALITY POINT	ERS
7	P1	Wire insertion to connector PBVP-10V-S (W) (Continuation)	BACK VIEW OF TERMINAL GOOD Terminal condition Note: *Make sure the terminal we *Avoid hitting the terminal	I into the connector during	Damaged terminal NO GOOD Terminal condition	NO GOOD Terminal codition	2. No wrong 3. No wrong 4. No deform 5. No stuck of 6. One by or 1. Mainsert Push Do no 2. Pleatermir 3. Aut replacencou difficulockee 4. Inselect to Docur 1. Refe Wire a 2. Refe Steerii procec 3. Refe Pull-Pl 4. Refe	ned terminal of terminal tip ne insertion retant reminders/Nike sure wires are ed. Conduct Pullafter insertion. It exert extra force ase hold the wires neal during insertion omatically disposse the unit if once untered bend termility of insertion and connector. It er to WI-PRO-CNC and Strip Length 1 for to WI-ENG-PDE and Navigation Condure It is to GL-PRO-AS to the unit for the control of	properly Push-Pull- e. s near on. se and ninal, nd half- ust be from C-017 for Tolerance. E-044 for ntroller Y-029 for

			WORK IN	STRUCTION		Effectivity Date:		October 21, 202	23
		Process Name/Title:	TAPII	NG ASSEMBLY PR	OCESS	Validity Date:		n/a	
		Model code/Part number:	930B / 75S136-0020	Customer: TRJ	Car Model: TOYOTA 4RUNNER	Document No.:		WI-ENG-PD-71	9
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	7 of 17
PARTS:	1. Assy 2. Gree	/ parts en VM tube (sunprene) ø8 L	=114±3mm			JIG:	1. Insertion	jig	
NO.	F	PROCESS NAME	WORK	PROCEDURE/ ILLUS	TRATION	TOOLS/PPE	(QUALITY POINT	ERS
8	P1	Wire insertion to Green VM tube (sunprene) ø8 L=114±3mm	R	rted wires and Black VM tube (See wire insertion condition.	2. Press the Upper and lower guide button using left and right hand. Sunprene) using right hand then press the ene) will stay in the jig.		Z. No defor 3. No tangl Tern Docum 1. Reference Inspect Insertio 2. Reference 2. Reference 2. Reference 2. Reference 3. Reference 3. Reference 4.	ninal tip must be verent References: er to GL-PRO-ASY- ion Standard for Co	-025 for oupler 043 for
			4. Press the lower button using left ha	and. Holes that need to be insert	ted are only open.			g use of parts med terminal ed wires	

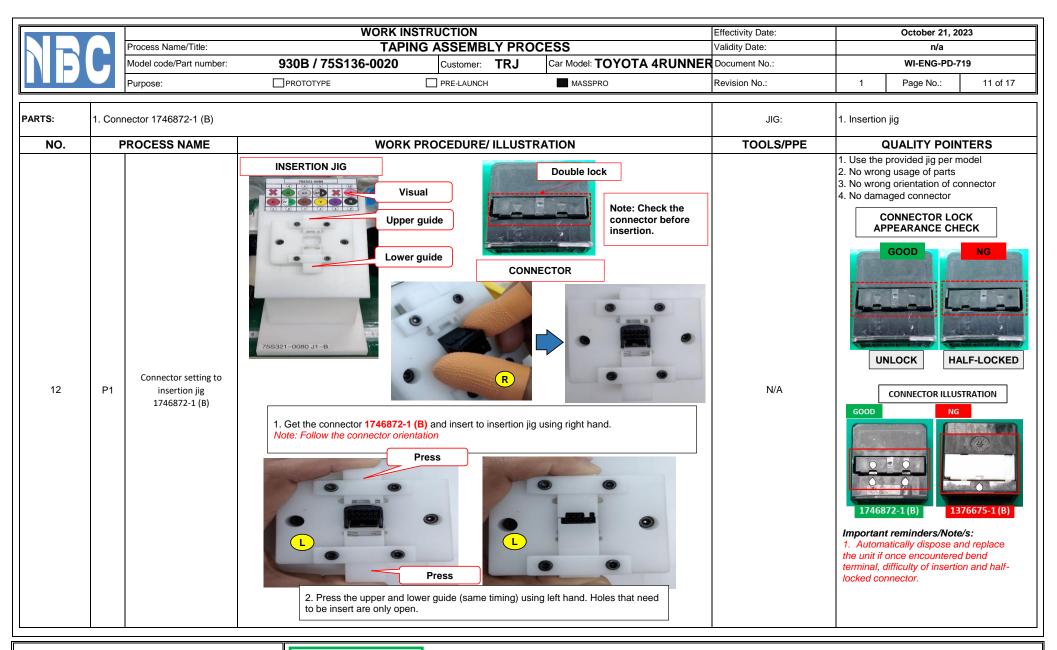


				STRUCTION		Effectivity Date:		October 21, 202	3
		Process Name/Title:	TAPI	NG ASSEMBLY PRO	DCESS	Validity Date:		n/a	
		Model code/Part number:	930B / 75S136-0020	Customer: TRJ	Car Model: TOYOTA 4RUNNER	Document No.:		WI-ENG-PD-719)
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	8 of 17
PARTS:	1. Assy 2. Gree	parts n VM tube (sunprene) ø8 L	.=114±3mm			JIG:	1. Insertion	jig	
NO.	Р	ROCESS NAME	WORK	PROCEDURE/ ILLUST	RATION	TOOLS/PPE	G	QUALITY POINT	ERS
9	P1	Wire insertion to assy parts	755130-0	R R	1. Hold the Green VM tube (Sunprene) using left hand and insert the wires from Black VM tube (Sunprene) using right hand.		2. No defor 3. No tangle Term Docum 1. Refe Inspectinetion 2. Refee	ent References:	025 for oupler 043 for

			WORK IN	STRUCTION		Effectivity Date:		October 21, 20	123
		Process Name/Title:	TAPI	NG ASSEMBLY PROC	CESS	Validity Date:		n/a	
		Model code/Part number:	930B / 75S136-0020	Customer: TRJ	Car Model: TOYOTA 4RUNNER	Document No.:		WI-ENG-PD-7	19
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	9 of 17
PARTS:	1. Assy	parts				JIG:	1. Insertion	jig	
NO.	F	PROCESS NAME	WORK	PROCEDURE/ ILLUSTR	ATION	TOOLS/PPE	C	QUALITY POIN	TERS
10	P1	Wire insertion to Connector PBVP-10V-S (W)	2. Hold the R/L wire using right hand finger then insert to connector using r OR-LG-R/W-B/W wires. Check the w Note: Follow the insertion sequence to the connector using r OR-LG-R/W-B/W wires.	wire 1 2 3 R/L OR LG 285 285 285 285 285 285 and support the wire by left in ight hand. Repeat the process vire after insertion passed on the above illustration has	NSERTION ILLUSTRATION		1. Use prov. 2. No wron. 3. One by 0. 4. No wron. 5. No defor 6. No stuck 7. No defor 8. No tangl 9. No wron. 1. Please during ins. 2. Make s. Conduct insertion. Do not ex. Document and Strip 3. Refer the and Strip 3. Refer the Push proving the control of the c	rided jig per mode g usage of parts one insertion g insertion med terminal of terminal tip med terminals ed wires g facing of the reminders/Note hold the wire nearest one with the control of the contro	e/s: ar terminal perly inserted. sh after 044 for oller procedure. of for Wire elected by the service of the s
							161	minal tip must be	

			WORK IN	STRUCTION	Effectivity Date: October 21, 2023			23	
		Process Name/Title:	TAPIN	NG ASSEMBLY PRO	DCESS	Validity Date:		n/a	
		Model code/Part number:	930B / 75S136-0020	Customer: TRJ	Car Model: TOYOTA 4RUNNER	Document No.:		WI-ENG-PD-71	9
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	10 of 17
PARTS:	1. Assy	parts				JIG:	n/a		
NO.	F	PROCESS NAME	WORK	PROCEDURE/ ILLUST	RATION	TOOLS/PPE	(QUALITY POIN	ΓERS
11	P1	Wire arrangement	Terminal tip is not visible	BEFORE FOLDING 1. Hold then co	the assy parts using both hands induct wire arrangement.	N/A	1. No defor 2. No tangl 3. No wron	rmed terminals led wires ig facing	

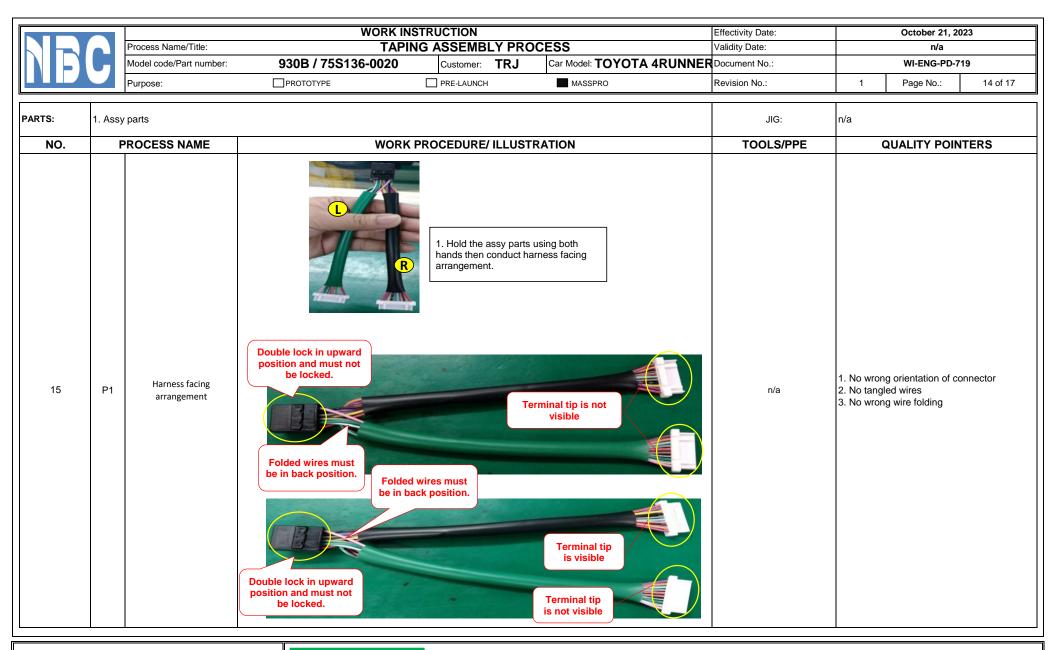


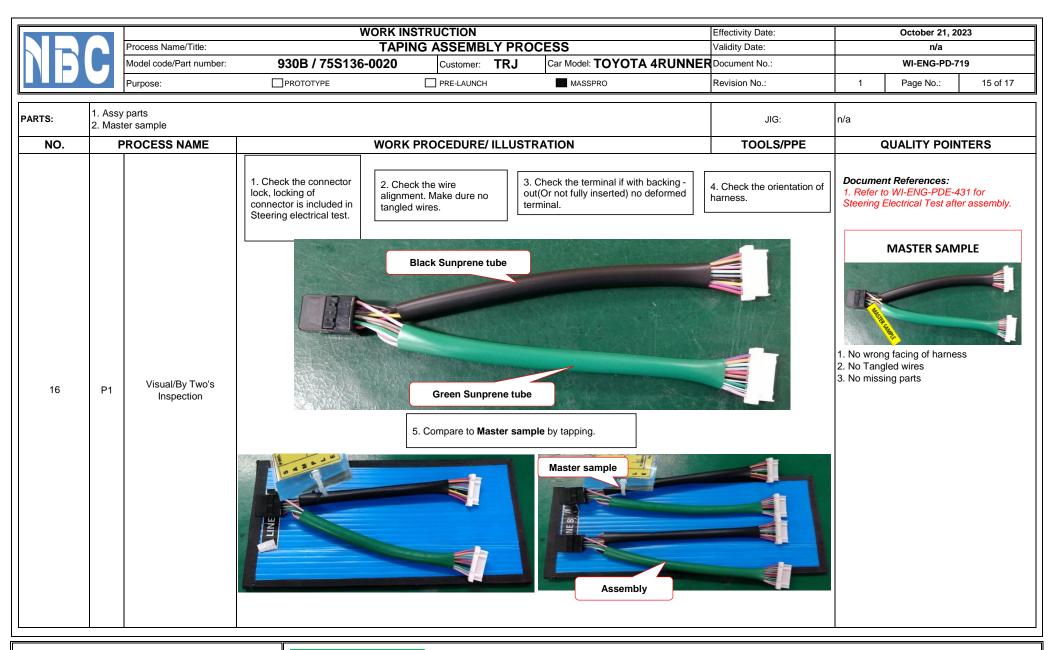


WORK INSTRUCTION Effectivity Date: October 21, 2023									
		Process Name/Title:	TAPI	NG ASSEMBLY P	ROCESS	Validity Date:		n/a	
		Model code/Part number:	930B / 75S136-0020	Customer: TR.	J Car Model: TOYOTA 4RUNNER	Document No.:		WI-ENG-PD-719)
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	12 of 17
PARTS:	1. Assy	parts				JIG:	Insertion jig)	
NO.	Р	ROCESS NAME	WORK	PROCEDURE/ ILLU	ISTRATION	TOOLS/PPE	C	QUALITY POINT	ERS
			INSERTION SEQUENCE FROM LE	FT TO RIGHT	WIRE INSERTION ILLUSTRATION				
			2ND ROW 1ST ROW 1 2 3 4	1 R	8 9 10 11 12 G GR GR/B X P 156 156 154 156 2 3 4 5 6 W/G BR Y V B 156 156 154 154 154 UBE Wire facing		2. No wrong 3. One by 6 4. No wrong 5. No defor	vided jig per model g usage of parts one insertion g insertion med terminal c of terminal tip	
13	P1	Connector setting to insertion jig 1746872-1 (B)		5 1 2	3 4	N/A	1. Please during ins 2. Make s inserted. after inse Do not ex	sure wires are prop Conduct <u>Pull-Push</u> ertion. kert extra force.	terminal erly -Pull-Push
			1. Insert first the wires from Black Sur R wire and insert to terminal slot 1 usi the process for V-Y-B wires. Note: Follow the insertion sequence be illustration stated above.	ng right hand. Repeat	2. Hold the GR/B wire and insert to terminal slot 5. Note: Follow the insertion sequence based on the illustration stated above.		the unit if terminal, locked co	nt References: to GL-PRO-ASY-02	bend n and half-

			WORK INS		Effectivity Date: October 21, 2023)23	
		Process Name/Title:	TAPIN	IG ASSEMBLY P		Validity Date:		n/a	
		Model code/Part number:	930B / 75S136-0020	Customer: TR.	J Car Model: TOYOTA 4RUNNER	Document No.:		WI-ENG-PD-7	19
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	13 of 17
PARTS:	1. Assy	·	WORK		ICTRATION	JIG:	1. Insertion		TEDE
NO.	, r	ROCESS NAME	WORK	PROCEDURE/ ILLU	ISTRATION	TOOLS/PPE	(QUALITY POIN	IERS
14	P1	Wire insertion to Connector 1746872-1 (B) (Continuation)	3. Insert the wires from Green sunprer by left index finger then insert to termin Note: Follow the insertion sequence ba	al slot 6 using right han sed on the above illustrated on the above ill	old the G wire and insert to terminal slot 8 gright hand. Repeat the process for GR-P		2. No wron 3. One by 6 4. No wron 5. No defoi 6. No stuck Importa 1. Pleas during ir 2. Make inserted, after ins. Do not e 3. Auton the unit terminal, locked c	Interpretation of the control of the	te/s: ar terminal operly sh-Pull-Push and replace ed bend tion and half-







	C	WORK INSTRUCTION Effectivity Date:					October 21, 2023			
		Process Name/Title:	TAPING ASSEMBLY PROCESS Validity Date:				n/a			
		Model code/Part number:	930B / 75S136-0020		Car Model: TOYOTA 4RUNNER	Document No.:	ļ	WI-ENG-PD-719	9	
		Purpose:	PROTOTYPE	☐ PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	16 of 17	
PARTS:	1. Assy parts JIG:					n/a				
NO.	PROCESS NAME		WORK PROCEDURE/ ILLUSTRATION			TOOLS/PPE	QUALITY POINTERS			
17	P1	Measurement	Note: Please use calibrated/verified measuring tape when getting the measurement.		166±3mm			E: FOR HATSUMO OWARIMONO g dimension	NO AND	

		WORK INSTRUCTION				Effectivity Date: October 21, 2023			2023			
	C	Process Name/Title: TAPING ASSEMBLY PROCESS				Validity Date:	n/a					
		Model code/Part number: 930B / 75S136-0020 Customer: TRJ Car Model: TOYOTA 4RUNN			Car Model: TOYOTA 4RUNNER	R Document No.: WI-ENG-PD-7		719				
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	17 of 17			
ARTS:	n/a					JIG:	n/a					
	QUALITY CHECKPOINTS											
				755136	-0020							
1.Cl	heck	k the connector lo	JOIN.	eck the wire alig no tangled wire Green	Contract to the contract of th		ECT FACING	N N	OLDED VIRES MUST BE N BACK OSITION			
N. WEST		k the orientation ck if no mising pa	THE STATE OF THE S	backing	k the terminal if with gout (not fully nserted ned terminal.)or			Control			