Purpose: PROTOTYPE PRE-LAUNCH MASSPRO Revision No.: 1 1. Connector 6188-0093 (W); AVSSf 0.3 Y-OR wire L=476±2mm; Black Corrugated tube Ø7, L=240±3mm (No slit); Black Corrugated tube Ø5, L=83±3mm (No slit); Connector 6189-1161 (B); MRSW CP G-B/W wires L=796±3mm (With SV tube (Vinyl) Ø5, L=73±3mm; Black JIG: 1. Insertion jig 2. Insertion jig 3. Locking jig 3. Locki	jig g 4. Terminal cover jig	
Purpose: PROTOTYPE PRE-LAUNCH MASSPRO Revision No.: 1 1. Connector 6188-0093 (W); AVSSf 0.3 Y-OR wire L=476±2mm; Black Corrugated tube Ø7, L=240±3mm (No slit); Black Corrugated tube Ø5, L=83±3mm (No slit); Connector 6189-1161 (B); MRSW CP G-B/W wires L=796±3mm (With SV tube (Vinyl) Ø5, L=73±3mm; Black JIG: 2. Insertion jig Corrugated tube Ø7 L=406±3mm (No slit); Black tape 3. Locking jig 3. L	Page No.: 1 of 11 giig with switch cover giig g 4. Terminal cover jig	
PARTS: 1. Connector 6188-0093 (W); AVSSf 0.3 Y-OR wire L=476±2mm; Black Corrugated tube Ø7, L=240±3mm (No slit); Black Corrugated tube Ø5, L=83±3mm (No slit); Connector 6189-1161 (B); MRSW CP G-B/W wires L=796±3mm (With SV tube (Vinyl) Ø5, L=73±3mm; Black JIG: 2. Insertion jig Corrugated tube Ø7 L=406±3mm (No slit); Black tape 3. Locking jig	jig with switch cover jig g 4. Terminal cover jig	
PARTS: Ø5, L=83±3mm (No slit); Connector 6189-1161 (B); MRSW CP G-B/W wires L=796±3mm (With SV tube (Vinyl) Ø5, L=73±3mm; Black JIG: 2. Insertion jig Corrugated tube Ø7 L=406±3mm (No slit); Black tape 3. Locking jig	jig g 4. Terminal cover jig	
NO DECCESS NAME WORK DECCEDURE/ ILL LISTRATION TOOL S/DRE OU	jig 4. Terminal cover jig	
NO. FROCESS NAME WORK PROCEDURE/ ILLUSTRATION TOOLS/FFE QU	UALITY POINTERS	
TABLE LAY-OUT Connector 6188-0093 (W)/ Connector tray Black Corrugated tube Ø5, L=83±3mm Connector 6189-1161 (B)/ Connector tray Connector tray Connector 6189-1161 (B)/ Connector tray Safety Instruction Be sure to wear prescribed personal protective equipment during operation (gloves, finger cots, etc.) 1. No missing 2. No excess		
Plack Corrupted 1. Maintain and always 1. Refer to	ent references: to WI-PRO-CNC-017 for Wire ip Length Tolerance	
Alert level For any trouble, inform the Assembly Assistant Supervisor or Line Leader for immediate corrective action. MRSW CP G-B/W wires Locking Terminal Tape holder/ L=796±3mm (With SV tube		
jig Black tape (Vinyl) Ø5 L=73±3mm		
Revision History Prepared by Reviewed by	Approved by Noted by	
04/20/24 1 Change from Pre-launch to Masspro. Update the measurement. Inclusion of Table lay-out. D.Castillo C. Villanueva A. Arañes n/a D.Castillo C. Villanueva A. Arañes n/a D. Castillo C. Villanueva A. Arañes n/a	A. Aranes n/a	
Eff. Date Rev. No Details of Change Revised Reviewed Approved Noted Est. Date: April 16, 2024		

	WORK INSTRUCTION Effectivity Date: April 20, 2024 Process Name/Title: TAPING ASSEMBLY PROCESS Validity Date: n/a												
		Process Name/Title:	TAPI	NG ASSEMBLY PROC	ESS	Validity Date:		n/a					
		Model code/Part number:	420/440 / A7446C	Customer: TRQSS	Car Model: TOYOTA-LAND CRUISER	Document No.:		WI-ENG-PDE-87	2A				
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	2 of 11				
PARTS:	1. Conr	nector 6188-0093 (W)				JIG:	1. Insertior	n jig with switch cov	/er				
NO.	F	PROCESS NAME	WORK	(PROCEDURE/ ILLUSTRA	TION	TOOLS/PPE	QUALITY POINTERS						
2	P1	Connector setting to insertion jig 6188-0093 (W)	Insertion jig with switch cover Yellow wire Orange wire Visual reference Press R 1. Press the lock using left hand. 3. Put for Yellow wire	INSERTION JIG ORIENTATION LOCK INSERTION JIG ORIENTATION R 2. Get the connector 6188-009 to insertion jig. Release the loc Note: Follow the connector of the lower wire guide upward rellow wire will be opened.	orientation.	n/a	2. No wron	ng orientation of co ng use of connector aged connector	nnector				



			WORK IN	STRUCTION		Effectivity Date:		April 20, 2024	
		Process Name/Title:	TAPI	NG ASSEMBI	LY PROCESS	Validity Date:		n/a	
		Model code/Part number:	420/440 / A7446C	Customer:	TRQSS Car Model: TOYOTA-LAND CRUISER	Document No.:		WI-ENG-PDE-87	2A
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	3 of 11
PARTS:	1. AVS	Sf 0.3 Y-OR wire L=476±2m	m			JIG:	1. Insertion	n jig with switch cov	/er
NO.	F	PROCESS NAME	WORK	PROCEDURE/	ILLUSTRATION	TOOLS/PPE		QUALITY POIN	ΓERS
3	P1	Wire insertion to insertion 6188-0093 (W)	1. Hold the insertion jig using left h Get the Yellow wire then insert to terminal slot 1 using right hand. 2 Orange 3. Get the Orange wire then insert terminal slot 2 using right hand.	e wire	2. Press the button using right thumb. The slot for Orange wire will be opened. 4. After insertion, push the lock using left thumb and then hold the wires and gently pull out the connector from jig using right hand.	n/a	2. No loos 3. No wrot 4. One by 5. No defo 6. No wror Importa 1. Pleas 2. Make insertic Do not Docum 1. Refe Push p 2. Refe	ct Pull-Push-Pull-l	e/s: ear terminal. roperly Push after -029 for Pull-

				WORK INSTRUCTION	ı			Effectivity Date:		April 20, 2024	ı
		Process Name/Title:		TAPING ASSEN	IBLY PROC	ESS		Validity Date:		n/a	
		Model code/Part number:	420/440	/ A7446C Custome	er: TRQSS	Car Model: TOYO	TA-LAND CRUISER	Document No.:		WI-ENG-PDE-87	2A
		Purpose:	☐ PROTOTYP	E PRE-LAU	NCH	MASSPRO		Revision No.:	1	Page No.:	4 of 11
PARTS:	1. Assy 2. Black	parts c Corrugated tube Ø7, L=2	40±3mm (No slit)	3. Blac	c Corrugated tu	be Ø5, L=83±3mm	(No slit)	JIG:	n/a		
NO.	P	ROCESS NAME		WORK PROCEDU	₹E/ ILLUSTR	ATION		TOOLS/PPE	QUALITY POINTERS		
4	P1	Wire insertion to Black Corrugated tube Ø7, L=240±3mm (No slit)	1. Ge hand	et the Black corrugated tube (Note of then insert the Y-OR wire using r	o slit) Ø7, L=24 ight hand.	R 0±3mm using right		n/a	1. No wror 2. No defo	ng use of parts rmed terminal	
5		Wire insertion to Black Corrugated tube Ø5, L=83±3mm	1. Ge hand	et the Black corrugated tube (Not then insert the Y-OR wire using n	siit) Ø5, L=83:	R ±3mm using right		n/a	1. No wror 2. No defo	ng use of tape. rmed terminal	

			WORK IN	ISTRUCTION		Effectivity Date:		April 20, 2024	ı
		Process Name/Title:	TAPI	NG ASSEMBLY PROC	ESS	Validity Date:		n/a	
		Model code/Part number:	420/440 / A7446C	Customer: TRQSS	Car Model: TOYOTA-LAND CRUISER	Document No.:		WI-ENG-PDE-87	'2A
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	5 of 11
PARTS:	1. Conr	ector 6189-1161 (B)				JIG:	1. Insertior	n jig	
NO.	F	ROCESS NAME	WORK	PROCEDURE/ ILLUSTRA	ATION	TOOLS/PPE	(QUALITY POIN	TERS
6	P1	Connector setting to insertion jig 6189-1161 (B)	VISUAL REFERENCES INSERTION JIG Visual reference Press 1. Press the lock using left thumb.	Hole Lock I-mark I-mark I-mark Press	Release 1161 (B) using right hand then ase the lock after insertion. Tor orientation.		2. No wron 3. No dam 4. No wron 5. No loose 6. No wron 7. One by 8. No defo 9. No wron Importa 1. Pleas 2. Make inserted Conduct insertion Do not e Docume 1. Refer	ng insertion one insertion rmed terminal ng wire facing ont reminders/Note the hold the wire ne sure wires are po	e/s: ear terminal. roperly Push after



			WORK INSTRU	CTION			Effectivity Date:	T	April 20, 2024	ļ.	
		Process Name/Title:	TAPING A	SSEMBLY	PROCESS		Validity Date:		n/a		
		Model code/Part number:	420/440 / A7446C	Customer:	TRQSS Car Model: 1	TOYOTA-LAND CRUISER	Document No.:		WI-ENG-PDE-87	'2A	
		Purpose:	PROTOTYPE I	PRE-LAUNCH	MASSPE	RO	Revision No.:	1	Page No.:	6 of 11	
PARTS:	1. Assy	parts					JIG:	n jig			
NO.	F	ROCESS NAME	WORK PROC	EDURE/ IL	LUSTRATION		TOOLS/PPE	S/PPE QUALITY POINTER			
7	P1	Wire insertion to Connector 6189-1161 (B)	1. Hold the insertion jig using left hand. Get Yellow wire then insert to terminal slot 1 us right hand. 2 Orange wire R 3. Get the Orange wire then insert to terminal slot 2 using right hand.	al 4. After and the	Press 2. Press the button usin slot for Orange wire will the properties of the pro	Press R ck using left thumb gently pull out the	n/a	Importan 1. Please 2. Make s inserted. Conduct insertion Do not e.	ng insertion one insertion rmed terminal ng wire facing at reminders/Note e hold the wire ne sure wires are pro- "Pull-Push-Pull-Pill. xert extra force. ant references: to GL-PRO-ASY-(ar terminal. operly ush after	

				WORK IN	STRUCTION		Effectivity Date:		April 20, 202	4	
		Process Name/Title:		TAPIN	IG ASSEMBL	Y PROCESS		Validity Date:		n/a	
		Model code/Part number:	420/440	/ A7446C	Customer:	TRQSS Car Model:	TOYOTA-LAND CRUISER	Document No.:		WI-ENG-PDE-87	72A
		Purpose:	PROTOTYPE		PRE-LAUNCH	MASSP	RO	Revision No.:	0	Page No.:	7 of 11
PARTS:	1. Assy	parts						JIG:	1. Locking	jig	
NO.	F	PROCESS NAME		WORK	PROCEDURE/	ILLUSTRATION		TOOLS/PPE	TERS		
8	P1	Connector lock		Con NG Unlock Condition BEFORE PF	hand proper some state of the s	GOOD Full lack Can	ck the connector if	LOCKING JIG	1. WANL DAMAG	ck/half-locked con	o lock the

			Effectivity Date:		April 20, 2024	1				
		Process Name/Title:	TAPIN	NG ASSEMBLY PROC	ESS	Validity Date:		n/a		
		Model code/Part number:	420/440 / A7446C	Customer: TRQSS	Car Model: TOYOTA-LAND CRUISER	Document No.:		WI-ENG-PDE-87	′2A	
		Purpose:	☐ PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	8 of 11	
PARTS:	1. Assy 2. Black					JIG:	n/a			
NO.	F	PROCESS NAME	WORK	PROCEDURE/ ILLUSTR	ATION	TOOLS/PPE QUALITY POINTERS				
9	P1	Taping 1 Black Corrugated tube to Wire near connector	1. Hold the assy parts using left hand then conduct pre-taping using both hands. 112 ± 3mm 112 ± 3mm	20±3mm 2. Confirm 2 tape up to e continue the continue the state of the continue the state of the continue the state of the continue t	20±3mmmeasurement from end of nd of corrugated tube then e taping process using both hand. Immed of COT up to Connector a continue the taping process and. 4. After taping, check the measurement and tape condition.	6789 1123456789	6. No wron	-of tape e tape e tape sing tape ng use of tape ng dimension rtant reminders/N e use calibrated a ing tape when get	and verified	

	_		WORK INSTRUCTION		Effectivity Date:		April 20, 2024	1
		Process Name/Title:	TAPING ASSEMBLY I	PROCESS	Validity Date:		n/a	
		Model code/Part number:	420/440 / A7446C Customer: TF	RQSS Car Model: TOYOTA-LAND CRUISER	Document No.:		WI-ENG-PDE-87	′2A
		Purpose:	☐ PROTOTYPE ☐ PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	9 of 11
PARTS:	1. Assy 2. Blac		3. MRSW CP G (Vinyl) Ø5, L=73	G-B/W wires L=796±3mm (With SV tube 3±3mm	JIG:	n/a		
NO.	F	PROCESS NAME	WORK PROCEDURE/ ILL	USTRATION	TOOLS/PPE	(QUALITY POIN	TERS
10	P1	Taping 2 Black SV tube (Vinyl) to wire near hotmelted wires	46±3mm 9 50 1 2 3 4 5 6 3 8 enchol	Get the hotmelted G-B/W wires with ack SV tube (Vinyl) then measure from d of SV tube (Vinyl) up to the edge of treelted wires 46±3mm using both ands. 2. Hold the assy parts using left hand, get the black tape using right hand and then continue the taping process using both hands. 3. After taping, Check the measurement and taping condition.		1. No flip-o 2. No peel- 3. No loose 4. No miss 5. No wron	iment reference for to WI-PRO-AS g process ortant reminders/ose use calibrated ring tape when government.	es: Y-001 for 'Note/s: and verified



	WORK INSTRUCTION Effectivity Date: April 20, 2024 Process Name/Title: TAPING ASSEMBLY PROCESS Validity Date: n/a													
		Process Name/Title:	TAPING ASSEMBLY PROCESS		Validity Date:		n/a							
		Model code/Part number:	420/440 / A7446C Customer: TRQSS Car Model: To	OYOTA-LAND CRUISER	Document No.:		WI-ENG-PDE-87	′2A						
		Purpose:	☐ PROTOTYPE ☐ PRE-LAUNCH ☐ MASSPRO)	Revision No.:	1	Page No.:	10 of 11						
PARTS:	1. Assy 2. Black	parts Corrugated tube Ø7 L=406±	mm (No slit)		JIG:	1. Terminal	cover jig							
NO.	F	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION		TOOLS/PPE	TERS								
11	P1	Wire insertion to Black Corrugated tube Ø7 L=406±5mm (No slit)	2. Hold the Black corrugated tube Ø7 L=406±5mm (No slit) using left hand the insert the (Hotmelted wires G-B/W) using right hand. R 3. After insertion, remove the using right hand.	then		1. No wron	g usage of parts aged rubber seal							

		WORK IN	NSTRUCTION		Effectivity Date:	April 20, 2024		
	Process Name/Title:	TAPING ASSEMBLY PROCESS			Validity Date:	n/a		
	Model code/Part number:	420/440 / A7446C	Customer: TRQSS	Car Model: TOYOTA-LAND CRUISER	Document No.:		WI-ENG-PDE-87	′2A
	Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	1	Page No.:	11 of 11

PARTS: 1. Assy parts JIG: n/a

QUALITY CHECKPOINTS

TAPING - P1

A7446C









NO GOOD

- 1 No Terminal Backing Out
- **2** No Deformed terminal

3 No Missing tape

CONFIDENTIAL: Any misuse or misappropriation, including unauthorized copying, reproduction in any form, disclosure or publishing of this document or any information herein is strictly prohibited.