1. Assy parts; Connector 6188-0066 (GR); TVSsf 0.3 B/W wires L=801±3mm; TVSsf 0.3 B/W wires L=801±3mm; Black Corrugated tube (No silt) 05  NO. PROCESS NAME    VORK PROCEDURE/ ILLUSTRATION   TOOLS/PPE				WORK INS	STRUCTION				Effectivity Date:		August 08, 202	24
Purpose: PROTOTYPE PRE-LAUNCH MASSPRO Revision No.: 2 Page No.: 1 c.  PARTS: 1.Assy parts, Connector 6188-0066 (GR); TVSSf 0.3 G wires L=801±3mm; TVSSf 0.3 B/W wires L=801±3mm; Black Corrugated tube (No sit) Ø5  I.Assy parts, Connector 6188-0066 (GR); TVSSf 0.3 G wires L=801±3mm; TVSSf 0.3 B/W wires L=801±3mm  NO. PROCESS NAME  VORK PROCEDURE/ ILLUSTRATION  TOOLS/PPE  QUALITY POINTERS  Safety Instruction Be sure to wear protective equipment during operation (gloves, finger cots, etc.)  I. Assy parts, Connector 6188-0066 (GR); TVSSf 0.3 B/W wires L=801±3mm  Tools/PPE  QUALITY POINTERS  Tyos f 0.3 B/W wires L=801±3mm  I. Maintain and always practice 9s. Personal things on the work/parts of tube (No sit) Ø5  I. No missing parts/tools  I. No excess parts/tools			Process Name/Title:		1	CESS			Validity Date:		n/a	
1. Assy parts; Connector 6188-0066 (GR); TVSsf 0.3 B/W wires L=801±3mm; TVSsf 0.3 B/W wires L=801±3mm; Black Corrugated tube (No silt) 05  NO. PROCESS NAME    VORK PROCEDURE/ ILLUSTRATION   TOOLS/PPE			Model code/Part number:	310B / 7M0522-7021	Customer: TRJ	Car Model:	TOYOTA	A-RAV 4	Document No.:		WI-ENG-PDE-40	)3A
NO. PROCESS NAME  Very 1-4572-3mm; Black SV tube (Vinyl) Ø7 L=572-3mm; Black SV tube (Vinyl) Ø7 L=572-3mm  Black SV tube (Vinyl) Ø7 L=572-			Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPF	RO		Revision No.:	2	Page No.:	1 of 9
Connector 6188-0066 (GR)  Connector 6188-0066 (GR)  Connector Tray  Black SV tube (Vinyl)  Ø7 L=213±3mm  Connector 6188-0066 (GR)  Connector Tray  Black SV tube (Vinyl)  Ø7 L=213±3mm  Document reference/s:  1. Refer to Wi-PRO-CNC-017 for W Strip Length Tolerand (gloves, finger cots, etc.)  1. Refer to Wi-PRO-CNC-017 for W Strip Length Tolerand (gloves, finger cots, etc.)  1. Refer to Wi-PRO-CNC-017 for W Strip Length Tolerand (gloves, finger cots, etc.)  1. Refer to Wi-PRO-CNC-017 for W Strip Length Tolerand (gloves, finger cots, etc.)  1. No missing parts/tools  1. No missing parts/tools  2. Personal things on the workplace is prohibited. Keep it in your locker.  1. No missing parts/tools  2. No excess parts/tools  1. No excess parts/tools		L=436±	4mm; Black tape; Black SV t	tube (Vinyl) Ø7 L=57±3mm; Black Sv tube (	Vinyl) Ø7 L=213±3mm		d tube (No slit)	Ø5		2. Locking 3. Termina	ig cover jig	
For any trouble, inform the Assembly Assistant Supervisor or Line Adder for immediate corrective action.	1	P1	Table lay-out	Connector Tray  Black Corrugated tube (No slit) Ø5 L=436±4mm	Black SV tube (Viny Ø7 L=57±3mm	Assy	TVSSf 0.3 B/ L=801±3 TVSSf 0.3 G L=801±3n	W wires smm wires nm ack Tape / ppe Holder	Be sure to wear prescribed person: protective equipme during operation (gloves, finger cots etc.)  Housekeeping 1. Maintain and alwa practice 5's. 2. Personal things the workplace is prohibited. Keep it your locker.  Alert level For any trouble, inforthe Assembly Assistant Supervis or Line Leader for immediate corrective.	Docum  1. Refer  Strip Ler  2. Refer  assembly  1. No miss  2. No exce	to WI-PRO-CNC-0 gth Tolerance to WI-ENG-PDE-40 y process	17 for Wire and
Revision History Prepared by Reviewed by Approved by Note				Revision History		1	T	1	Prepared by	Reviewed by	Approved by	Noted by
Change SV tube (Vinyl) length from Ø7 L=207±3mm to Ø7 L=213±3mm to aligned in Cutting ledger. Transfer wire insertion to SV tube from Offline assembly process and transfer Taping 2 to P2 due to process improvement. Inclusion of car model "TOYOTA-RAV 4". Improved Table lay-out and Visual inspection/Quality checkpoints.  C.Villanuev a A. Arañes N/A	/08/24 2	SV tube	from Offline assembly process ar	nd transfer Taping 2 to P2 due to process improve			Α.,	Arañes N	/A			
05/12/23 1 Inclusion of quality checkpoints; Improve the Important remnders/note/s and document references.  J.loterte  C.Villanuev  A. Arañes  N/A	/12/23 1	Inclusion	n of quality checkpoints; Improve	the Important remnders/note/s and document refe	erences.	J.loterte C	I A	Arañes N	/A //	1/1/21/1	AM	
12/19/22 0 Initial issue.  K.Doria J.Loterte C.Villanuev A. Arañes D. Castillo C. Villanuev A. Arañes N.	/19/22 0	Initial iss	sue.			K.Doria	J.Loterte C.V	/illanuev a A. Ar	añes D. Castillo	C. Villanueva	A. Arañes	N/A
Eff. Date Rev. No Details of Change Revised Reviewed Approved Noted Est. Date: February 19, 2022	. Date Rev. No	0		Details of Change		Revised	Reviewed Ap	proved No				•



			WORK INS	TRUCTION			Effectivity Date:		August 08, 202	24
		Process Name/Title:		IG ASSEMBLY PRO	CESS		Validity Date:		n/a	
		Model code/Part number:	310B / 7M0522-7021	Customer: TRJ		TOYOTA-RAV 4	Document No.:		WI-ENG-PDE-40	)3A
	<u> </u>	Purpose:	PROTOTYPE	☐ PRE-LAUNCH	MASSPRO		Revision No.:	2	Page No.:	2 of 9
PARTS:	1. Assy 2. Black	part SV tube (Vinyl) Ø7 L=57±3m	nm	3. Black SV tube (Vinyl)	Ø7 L=213±3mm		JIG:	1. Terminal	cover jig	
NO.	F	ROCESS NAME	WORK	PROCEDURE/ ILLUSTI	RATION		TOOLS/PPE	(	QUALITY POIN	TERS
2	P1	Wire Insertion to Black SV tube (Vinyl) Ø7 L=57±3mm and Black SV tube (Vinyl) Ø7 L=213±3mm	1. Hold the wires using left ham put on terminal cover jigs for bowires (Y and OR) using right had a second of the control of	th the 1st S\ th then inser	ne wires using left v tube (Vinyl) Ø7 rt the wires, get thyl) Ø7 L=213±3mr using right hand.	L=57±3mm ne 2nd SV m and insert	TERMINAL COVER JIG	<ol><li>No deform</li></ol>	use of parts ned terminal ge rubber seal	



			WORK INS				Effectivity Date:		August 08, 20	24
		Process Name/Title:		G ASSEMBLY PROC			Validity Date:		n/a	
		Model code/Part number:	310B / 7M0522-7021	Customer: TRJ	Car Model:	TOYOTA-RAV 4	Document No.:		WI-ENG-PDE-40	03A
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPR	RO	Revision No.:	2	Page No.:	3 of 9
PARTS:	1. Conr	ector 6188-0066 (GR)					JIG:	1. Insertion jig		
NO.	F	PROCESS NAME	WORK F	PROCEDURE/ ILLUSTR	ATION		TOOLS/PPE	(	TERS	
<b>NO.</b>	P1	Connector setting to insertion jig 6188-0066 (GR)	INSERTION JIG  I-MARK  R  R  1. Press the lock of insertion jig using thumb.	Visual reference Unlock button Lower guide	CONNECORIENTA  the connector sing right hand		n/a	I-mark align  I-ma NOT  1. Use prov 2. No wrong 3. No wrong 3. No wrong 3.	GOOD rrk is 2	ntation n nole is open holes are open



		T	WORK ING			T= = .	1		
			WORK INS		00500	Effectivity Date:		August 08, 20	24
		Process Name/Title:		G ASSEMBLY PRO		Validity Date:		n/a	
		Model code/Part number:	310B / 7M0522-7021	Customer: TRJ	Car Model: TOYOTA-RAV 4	Document No.:		WI-ENG-PDE-4	03A
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	2	Page No.:	4 of 9
	ı					1			
PARTS:	1. Assy	parts				JIG:	1. Insertion	jig	
NO.	I	PROCESS NAME	WORK F	PROCEDURE/ ILLUST	FRATION	TOOLS/PPE		ITERS	
4	P1	Wire Insertion to Connector 6188-0066 (GR)	1. Hold the insertion jig using left had get Yellow wire using right hand an insert to connector.  3. Hold the insertion jig using left had a get Orange wire using right hand a insert to connector.	and, d 2. SI	RE FACING  Press the button after insertion. In the following the properties of the		1. İnsertiright. 2. Make inserted Conductinsertion Do not e	t Pull-Push-Pu n. exert extra force. ent reference/s to GL-PRO-ASY coedure.	be from left to properly ull-Push after



				STRUCTION				Effectivity Date:		August 08, 20	24	
		Process Name/Title:		IG ASSEMB				Validity Date:		n/a		
		Model code/Part number:	310B / 7M0522-7021	Customer:	TRJ	Car Model:	TOYOTA-RAV 4	Document No.:		WI-ENG-PDE-4	03A	
		Purpose:	PROTOTYPE	PRE-LAUNCH	-1	MASSPE	RO	Revision No.:	2	Page No.:	5 of 9	
PARTS:	1. Assy						JIG:	n/a				
	2. Black	· · · · · · · · · · · · · · · · · · ·										
NO.	F	PROCESS NAME	WORK PROCEDURE/ ILLUSTRATION					TOOLS/PPE	•	QUALITY POINTERS		
5	P1	Taping 1 Vinyl tube to wire near Connector	25 ± 3mm  1. Hold the assy parts and measure Vinyl tube to connector 25mm using  Note: 0 -5mm →End tape up to connector (in	both hands. the concludes rubber see 20±3mm	eal)  25 ± 3mm  0~5	ght hand and h	g left hand, get Black begin taping process.	MEASURING TAPE  6 7 8 9 1 2 3 4 5 6 7 8 9	5. No wror 6. No miss Importa 1. Pleas measur measur Docum 1. Refe	off tape e tape ng dimension ng use of tape	verified etting the	



	_		WORK INS	TRUCTION		Effectivity Date:		August 08, 202	24
		Process Name/Title:		IG ASSEMBLY PRO	CESS	Validity Date:		n/a	
		Model code/Part number:	310B / 7M0522-7021	Customer: TRJ	Car Model: TOYOTA-RAV 4	Document No.:		WI-ENG-PDE-403	3A
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	2	Page No.:	6 of 9
PARTS:	1. Assy	Parts		JIG:	1.Insertion j	ig with switch cover			
NO.	F	PROCESS NAME	WORK F	TOOLS/PPE	(	QUALITY POINT	rers		
6	P1	Connector setting to insertion jig 6188-0066 (GR) (Assy parts)	Insertion jig  Visual reference  Button  Wire guide	Terminal slot  I-mark  Lock  Press  L  2. Inser	CONNECTOR ORIENTATION  R  R  Press  It the connector 6188-0066 (GR) using right hand and release the  3. Flip the assy parts upward to make way for insertion using left hand. Push the wire guide upward using right hand. Slot for Green wire will be open.	n/a	I-mark is align  I-mark is align  I. Use provi 2. No wrong 3. No wrong	onnector Orient Illustration  is 1ho  GOOD	es are open



			WORK II	NSTRUCTION			Effectivity Date:		August 08, 2024	ı
		Process Name/Title:	TAP	ING ASSEMBLY PRO	CESS		Validity Date:		n/a	
		Model code/Part number:	310B / 7M0522-7021	Customer: TRJ	Car Model:	TOYOTA-RAV 4	Document No.:		WI-ENG-PDE-403	A
		Purpose:	PROTOTYPE	PRE-LAUNCH	MASSP	RO	Revision No.:	2	Page No.:	7 of 9
PARTS:		Sf 0.3 G wire L=801±3mm Sf 0.3 B/W wire L=801±3mm					JIG:	1.Insertion j	ig with switch cover	
NO.	F	PROCESS NAME	WORK	K PROCEDURE/ ILLUST	RATION		TOOLS/PPE	(	ERS	
7	P1	Wire Insertion to connector 6188-0066 (GR)	1. Hold the assy parts upward using left hand. Get the Green wire and insert to connector using right hand.	R Press  2. Press the button after insertion. Slot for Black/White wire will be open.	3. Get thusing rig to conne	Black/White  R  The Black/White wire on the sector.	n/a	1. Insert right. 2. Make inserted. Conduct insertion. Do not e. Docume. 1. Refer Push pro. 1. No loose 2. No wrong. 3. One by o. 4. No deform.	t Pull-Push-Pull  n. exert extra force. ent reference/s: to GL-PRO-ASY- ocedure. insertion	e from left to operly I-Push after
8		Wire insertion to Vinyl tube with assy parts	1. Hold the assy parts upward using Insert the Green and BlackWhite witube (Vinyl) using right hand.	hand jig us	ress the insertion d and slowly rem sing right hand.	n jig lock using left nove the harness from	n/a		g use of parts med terminal	

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		Process Name/Title:	TAPII	NG ASSEMBLY	Y PROC	ESS		Validity Date:		n/a		
		Model code/Part number:	310B / 7M0522-7021	Customer:	TRJ	Car Model:	TOYOTA-RAV 4	Document No.:		WI-ENG-PDE-4	)3A	
		Purpose:	PROTOTYPE	PRE-LAUNCH		MASSPE	RO	Revision No.:	2	Page No.:	8 of 9	
PARTS:	1. Assy 2. Black		rts rrrugated tube (No slit) Ø5 L=436±4mm							Locking jig     Terminal cover jig		
NO.	F	PROCESS NAME	WORK	PROCEDURE/ IL	LLUSTRA	ATION		TOOLS/PPE		QUALITY POIN	TERS	
9	P1	Connector Lock	Before After Pressing	1. Put the connect press 2x to lock. properly pressed.  Connect  Unlock Condition	cor Cros	connector loc	gright hand then ck to confirm if  Onal View  GOOD  Lock  Full Lock Condition	LOCKING JIG	Important reminders/Note/s:  1. Manual locking may cause damaged lock  1. No unlock/half-locked connector 2. No damage connector		JSO	
10		Wire Insertion to Corrugated tube Ø5 L=436±4mm	using right hand then insert to	ver jig  2. Get the corrugated tube Ø5  3. Remove the terminal cover.						g use of parts med terminal		



			STRUCTION			Effectivity Date:		August 08, 202	24
	Process Name/Title:	TAPIN	NG ASSEMBLY PROC			Validity Date:		n/a	
	Model code/Part number:	310B / 7M0522-7021	Customer: TRJ	Car Model:	TOYOTA-RAV 4	Document No.:		WI-ENG-PDE-40	)3A
	Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPR	0	Revision No.:	2	Page No.:	9 of 9
						1	1	<u> </u>	
PARTS: 1. Assy	parts					JIG:	n/a		
		/2\ VIS	SUAL INSPECTION/ QUA	N ITY CUEC	PLEONITO				
		<u>/2\</u> VIS	SUAL INSPECTION/ QUA	ALIII CHEC	REGINTS				
P1			7M05	<mark>22-7</mark>	021				
GOOD	DD .		3 No Termin					GOC NO GC	
2 No 1	Wrong Insert		4 No Missin	g Tape (	Black Tape )	(5) No [	CIUIII	ned Termii	liai

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