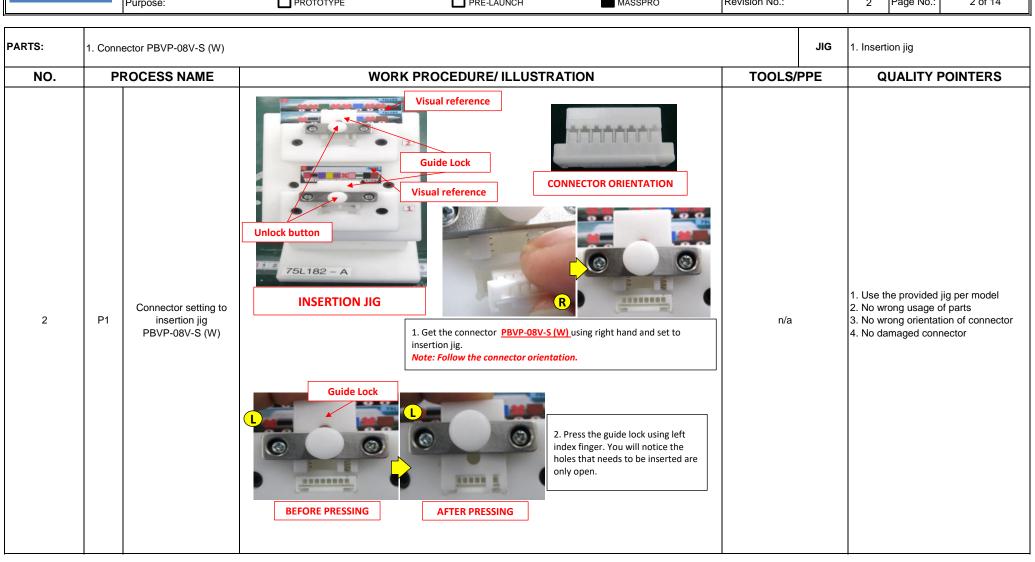
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			Process Name/Title:			TAPIN	IG ASSE	MBLY PRO	CESS			Val	idity Date:			n/a	
	-		Model Code/Part Number:	011B	1	75L182-0031	Custor	mer:	TRJ			Do	cument No.:		-	WI-ENG-PDE-	297
			Purpose:		PROTOTYPE		PRE-LA	UNCH	MASS	PRO		Rev	vision No.:		2	Page No.:	1 of 14
												1		,			
PARTS:		1. Conn	ector PBVP-10V-S (W)										JIG:	1.	Insertion j	iig	
N	0.	PF	ROCESS NAME			WORK	PROCEDI	JRE/ ILLUSTR	RATION				TOOLS/PPE		G	QUALITY POIN	ITERS
	1	P1	Connector setting to insertion jig PBVP-10V-S (W)		INSERTION	Guid	insertio	the connector PBVP- n jig. collow the connector		ng right hand	and set to	=: 	Safety Instruction Be sure to wear prescribed person protective equipment of the protection of the protect	al ent pves, al la	No wrong No wrong	rovided jig per mo usage of parts orientation of con ged connector	
	1					Revision History				T	1	1	Prepared by	Reviev	wed by	Approved by	Noted by
03/07/23	2	sunprene	process illustration. Merged Fe tube to VM tube (Sunprene) or lock in Steering Electrical te	Change tube	color from L	ight gray to N6GR. Re	move marking	process and transfer	D. Castillo	J.Loterte	C. Villanueva	A. Arañes					
06/15/21	1	improven	process owner from Producti nents and update pictures in a		ASY-017) to	Engineering (WI-ENG-	PDE-297A). Ap	oply some	M. Catapang	C. Villanueva	A. Shimamura	A. Arañes			pw	Jours House	4000
07/10/17	0	Initial issu	ue						<u> </u>		<u> </u>		D. Castillo	+	terte	.C. Villanueva	A. Arañes
Eff. Date	Rev. No				Details of C	Change			Revised	Checked	Approved	Noted	Est. Date:	July 10, 20	017		

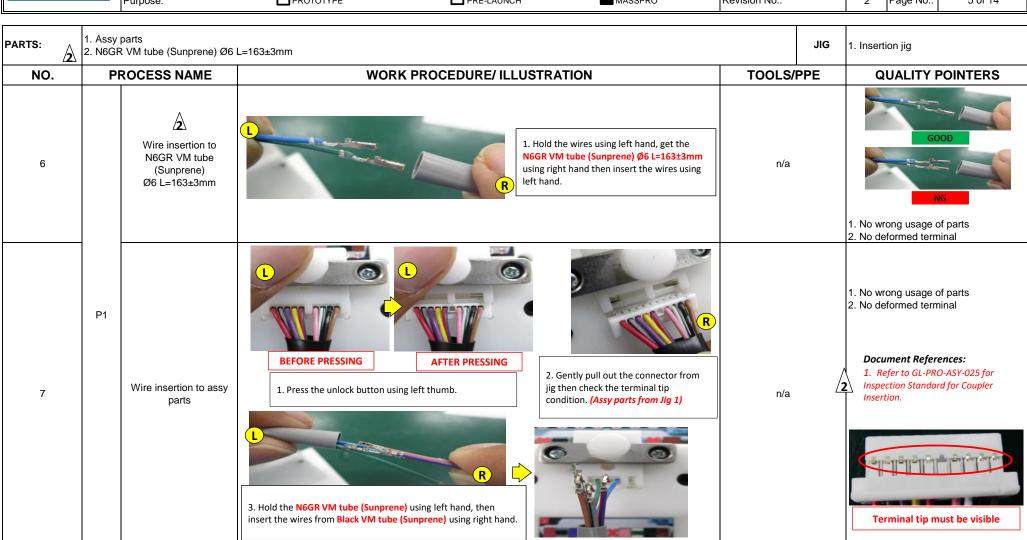
			WORK INSTRU	JCTION		Effectivity Date:	T	March 7	7, 2023
ŀ	Process Name/Title:		TAPING AS	SSEMBLY PRO	CESS	Validity Date:		n/	а
	Product Name/Code:	011B /	75L182-0031	Document No.:		WI-ENG-	PDE-297		
L	Purpose:	☐ PROTOT	YPE	PRE-LAUNCH	MASSPRO	Revision No.:	2	Page No.:	2 of 14



				WORK INSTRU	JCTION		Effectivity Date:		March 7, 2023
		Process Name/Title:		TAPING AS	SEMBLY PR	OCESS	Validity Date:		n/a
		Product Name/Code:	011B /	75L182-0031	Customer:	TRJ	Document No.:		WI-ENG-PDE-297
		Purpose:	☐ PROTOT	YPE	PRE-LAUNCH	MASSPRO	Revision No.:		2 Page No.: 3 of 14
		<u> </u>							
PARTS:		3 0.3 R L=191±2mm; GR/B /±2mm; BR L=384±2mm	3 L=380±2mm; V L=	195±2mm; Y L=197±2mm;	R/L L=382±2mm; F	P L=203±2mm; W/G L=386±2mm;		JIG	1. Insertion jig
NO.	PI	ROCESS NAME		WORK PROC	EDURE/ ILLUS	STRATION	TOOLS/P	PE	QUALITY POINTERS
3	P1	Wire insertion to connector PBVP-10V-S (W)	1. Get the R win V-Y-R/L-P-W/G		1 2 3 R GR/B V 191 380 191 to connector at term	Y R/L P W/G B BR	STEERING NAVIGATIO	DN	1. Use the provided jig per model 2. No wrong use of parts 3. No wrong insertion of wires 4. No deformed terminal 5. One by one insertion 6. No stuck-up of terminal tip  Important reminders/Note/s: 1. Please hold the wire near terminal during insertion.  2. Make sure wires are properly inserted. Conduct Pull-Push-Pull-Push after insertion.  Do not exert extra force.  Document References: 1. Refer to WI-ENG-PDE-044 for Steering Navigation Controller procedure. 2. Refer to WI-PRO-CNC-017 for Wire and Strip Length Tolerance 3. Refer to GL-PRO-ASY-028 for Pull-Push procedure.

				WORK INSTRU	CTION		Effectivi	ty Date:		March	7, 2023
		Process Name/Title:		TAPING AS	SEMBLY PR	ROCESS	Validity I	Date:		n/	'a
		Product Name/Code:	011B /	75L182-0031	Customer:	TRJ	Docume	ent No.:		WI-ENG-	PDE-297
		Purpose:	☐ PROTOTYPE		PRE-LAUNCH	MASSPRO	Revision	n No.:	2	Page No.:	4 of 14
<u> </u>							<u> </u>	_		<u> </u>	
PARTS: 2	1. Assy <sub>I</sub> 2. Black 3. AVSS	parts VM tube (Sunprene) Ø8 L 5 0.3 G L=209±2mm; L L=3	_=151±3mm 203±2mm					JIG	1. Inserti	on jig	
NO.	PF	ROCESS NAME		WORK PROCE	EDURE/ ILLUS	STRATION	TO	OOLS/PPE	Q	UALITY F	POINTERS
4		Wire insertion to Black VM tube (Sunprene) Ø8 L=151±3mm		be (Sunprene) Ø8 L=151±3 ing left hand. Continue to i				n/a	2. No de	ong usage of formed termingled wires	
5	P1	Wire insertion to connector PBVP-08V-S (W)	1. Get the G wire us for L wires.	To RIGHT  75L18  4 5 6 7 8  In a sertion sequence based on	1 2 X X	Wire facing  3 4 5 6 7 G X X L X 203 X  inal slot 3. Repeat the process	8 x	STEERING AVIGATION CONTROLLER	2. No wro 3. No wro 4. No de 5. One b 6. No stu Import 1. Plea termina 2. Mak inserte Push a Do not Docum 1. Refe Steering procedu 2. Refer and Stra 3. Refer	ong use of pong insertion formed term by one insertion on ins	n of wires inal ion minal tip  ers/Note/s: wire near vertion. are properly Pull-Push-Pull- n. force.  ppE-044 for Controller  CNC-017 for Wire

			WORK INSTR	UCTION		Effectivity Date:		March 7	7, 2023	
Process Name/Title:			TAPING A	SSEMBLY PROC	CESS	Validity Date:		n/	a	
Product Name/Code:	011B	1	75L182-0031	Customer:	TRJ	Document No.:		WI-ENG-	PDE-297	
Purpose:	PI	ROTOTY	PE	PRE-LAUNCH	MASSPRO	Revision No.:	2	Page No.:	5 of 14	



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		Process Name/Title:		TAPING AS	SEMBLY PROC	ESS	Validity Date:	n/a
		Product Name/Code:	011B /	75L182-0031	Customer:	TRJ	Document No.:	WI-ENG-PDE-297
		Purpose:	☐ PROTOT	TYPE	PRE-LAUNCH	MASSPRO	Revision No.:	2 Page No.: 6 of 14
PARTS:	1. Assy	parts		WORK PROC	EDURE/ ILLUSTR <i>a</i>	ATION	JIG TOOLS/PPE	Insertion jig     QUALITY POINTERS
8	P1	Wire insertion to connector PBVP-08V-S (W)	1. Hold the GR/I R/L-W/G-BR win Note: Follow the	B wire using right hand and instres.  The insertion sequence based on the insertion sequence b	WIRE FACING  The interest of t	V	STEERING NAVIGATION	1. Use the provided jig per model 2. No wrong use of parts 3. No wrong insertion of wires 4. No deformed terminal 5. One by one insertion 6. No stuck-up of terminal tip  Important reminders/Note/s: 1. Please hold the wire near terminal during insertion. 2. Make sure wires are properly inserted. Conduct Pull-Push-Pull-Push after insertion. Do not exert extra force.  Document References: 1. Refer to WI-ENG-PDE-044 for Steering Navigation Controller procedure. 2. Refer to WI-PRO-CNC-017 for Wire and Strip Length Tolerance 3. Refer to GL-PRO-ASY-028 for Pull-Push procedure.

			WORK INSTR	UCTION		Effectivity Date:		March 7,	2023
Process Name/Title:			TAPING A	Validity Date:		n/a			
Product Name/Code:	011B	1	75L182-0031	Customer:	TRJ	Document No.:		WI-ENG-PI	DE-297
Purpose:	☐ P	ROTOTY	PE	PRE-LAUNCH	MASSPRO	Revision No.:	2	Page No.:	7 of 14

TS:	1. Assy parts				J	IG n/a
NO.	PROCESS NAME	WOR	K PROCEDURE/ ILLUSTRAT	TION	TOOLS/PPE	QUALITY POINTERS
9	P1 Wire arrangement	Terminal tip is not visible	R  1. Hold the assy and conduct wir	parts using both hand e arrangement.	n/a	1. No deformed terminals 2. No tangled wires 3. No wrong facing  2  Important reminders/Note/s: 1. Make sure all 7 wires with term are visible and not folded inside th tube.

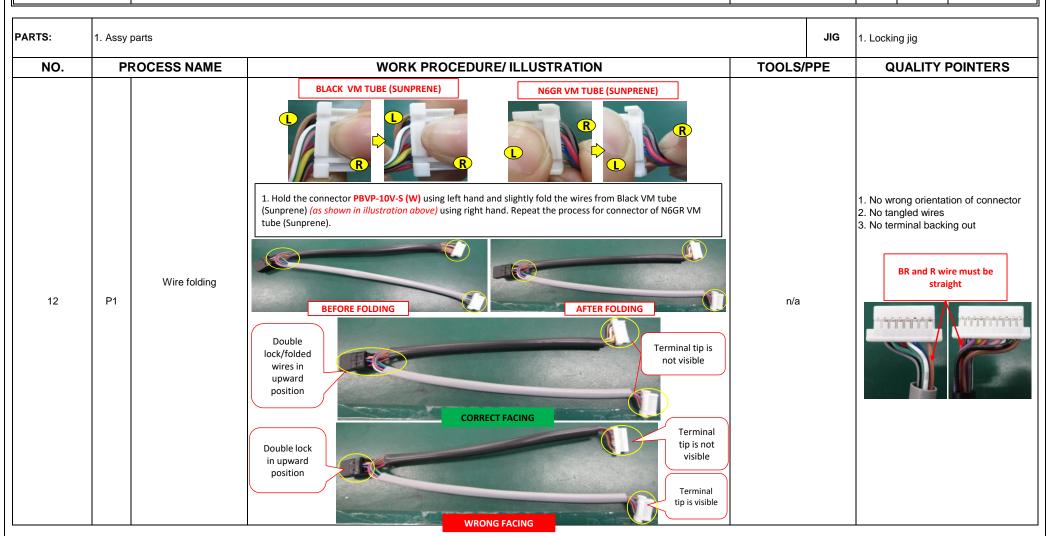
			WORK IN	STRUC	CTION			Effectivity Date:			March 7	', 2023
		Process Name/Title:	TAPIN	G ASS	SEMBLY PR	OCESS		Validity Date:			n/a	a
		Product Name/Code:	011B / 75L182-00	)31	Customer:	T	'RJ	Document No.:			WI-ENG-F	PDE-297
		Purpose:	PROTOTYPE		PRE-LAUNCH		MASSPRO	Revision No.:		2	Page No.:	8 of 14
PARTS:	1. Conn	ector 1746872-1 (B)							JIG	1. Insertic	on jig	
NO.	P	ROCESS NAME	WORK	PROCE	DURE/ ILLUS	TRATION		TOOLS/	PPE	QI	JALITY P	OINTERS
10	P1	Connector setting to insertion jig 1746872-1 (B)	Guide Lock  BEFORE PRESSING	1. Get th insertion Note: Fo	CONNECTOR ORIE  the connector 17468	R 872-1 (B) using r or orientation ab	he guide lock using left ger. You will notice the it needs to be inserted	n/a		2. No wro 3. No wro 4. No dan  CONN  GOOD  17468  Importe 1. Auto the unit terminal	DONG USAGE OF ORDER OF THE CONNECTOR LOCK  CHECK  CONNECTOR  CONNECTOR  CONNECTOR  A CONNECTOR	APPEARANCE K  NG  HALF-LOCKED  IILLUSTRATION NG  1376675-1 (B) ers/Note/s: pose and replace

				WORK INSTRU	JCTIO	N						Effectivity Da	ate:		March	7, 2023	
		Process Name/Title:		TAPING AS	SSEME	BLY F	PROC	ESS				Validity Date	:		n/	a	
		Product Name/Code:	011B /	75L182-0031	Cust	tomer:		7	ΓRJ			Document N	0.:		WI-ENG-	PDE-297	
		Purpose:	☐ PROTOTYPE		PRE-	LAUNCH			MAS	SPRO		Revision No	:	2	Page No.:	9 of 14	4
		<u> </u>	<u> </u>														
PARTS:	1. Assy	parts											JIG	1. Insert	ion jig		
NO.	PI	ROCESS NAME		WORK PROC	EDURE	E/ ILLU	USTR/	ATION				TOO	S/PPE	Q	UALITY F	POINTERS	S
11	P1	Wire insertion to connector 1746872-1 (B)	1. Insert the wires from and insert to terminal V-Y-B wires	0 2 3	ne). Hold t	orocess fo	or :	terminal : <b>Note: Fol</b>	P 203 2 V 195 SECON	ng right l Insertion	hand. <i>sequence</i>		n/a	2. No wr 3. No wr 4. No de 5. One b 6. No stu 2 Impor 1. Plea termin 2. Mai inserte Push o Do no: 3. Aute the uni termin half-loi Docum 1. Refe Push p 2. Refa	tant remina tant remina to Conduct tant remina to Conduct to Condu	n of wires ninal ion minal tip ders/Note/s: wire near sertion. s are properly Pull-Push-Pul n. force. pose and replaymentered bend of insertion and or. des:  ASY-028 for Pull-CNC-017 for V	y <u>II-</u> lace I I d

				W	ORK INSTRU	CTION		Effectivity Date:			March 7	7, 2023
		Process Name/Title:			TAPING AS	SEMBLY PRO	OCESS	Validity Date:			n/	a
		Product Name/Code:	011B	/ 75	5L182-0031	Customer:	TRJ	Document No.:			WI-ENG-I	PDE-297
		Purpose:	☐ PRO	TOTYPE	[	PRE-LAUNCH	MASSPRO	Revision No.:		2	Page No.:	10 of 14
										<u> </u>	l	
PARTS:	1. Assy	parts							JIG	1. Inserti	on jig	
NO.	PF	ROCESS NAME			WORK PROCE	DURE/ ILLUST	TRATION	TOOLS/	PPE	QI	UALITY F	POINTERS
11	P1	Wire insertion to connector 1746872-1 (B) (Continuation)	N6GR V	Note: Follow	3. Insert the wires f terminal slot 6.  Note: Follow the in  wire and insert to term of the insertion sequence	irom Black VM tube (secretion sequence base) minal slot 7. e based on the illustrate R PRESSING	Sunprene). Hold the G wire and insert to seed on the illustration stated above.  R  ation stated above.  6. Hold the wires using right hand and gently pull-out the connector from jig.	n/a		2. No wro 3. No wro 4. No def 5. One by 6 No stu  2 Import 1. Plea termin 2. Mak inserte Push a Do not 3. Auto the unin termin half-loc  Docum 1. Refer Push pr 2. Refe	ong use of pong insertion formed term by one insertion of term of term of term of term of term of the all during in the second of the second o	n of wires ninal cion rminal tip  ders/Note/s: wire near sertion. s are properly Pull-Push-Pull- on. of force. spose and replace puntered bend of insertion and or. ces: ASY-028 for PullCNC-017 for Wire

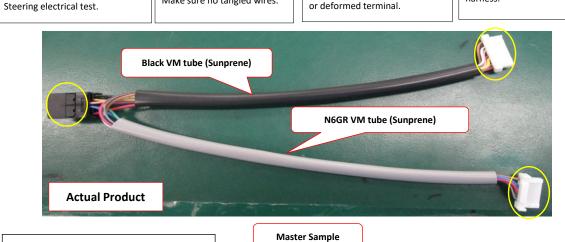


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			WORK INSTR	Effectivity Date:		March 7, 2023				
Process Name/Title:			TAPING A	SSEMBLY PROC	CESS	Validity Date:		n/	а	
Product Name/Code:	011B / 75L182-0031 Customer: TRJ					Document No.:		WI-ENG-	PDE-297	
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		Product Name/Code: <b>011B</b> / <b>75L182-0031</b>				0031	Customer: TRJ				Document No.:	WI-ENG-PDE-297				
		Purpose:	☐ PF	ROTOTYP	PE		PRE-LAUNCH		MASSPRO		Revision No.:		2	Page No.:	12 of 14	
	1															
PARTS:	n/a											JIG:	n/a			
				<del></del> ,	<u> </u>								_			
NO.	Р	ROCESS NAME			<b>2</b> WORI	K PROCED	URE/ ILLUS	RATION			TOOLS/F	PPE	Q	UALITY F	POINTERS	
			1. Check the		tor lock,	2. Check the	wire alignment.		the terminal if with	4.	. Check the orientat	tion of				

Make sure no tangled wires.



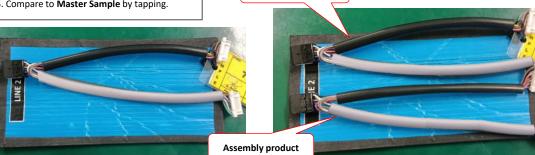
backing out (not fully inserted)

or deformed terminal.

harness.

5. Compare to **Master Sample** by tapping.

locking of connector is included in





## Document References:

1. Refer to WI-ENG-PDE-431 for Steering Electrical Test after assembly.

## MASTER SAMPLE



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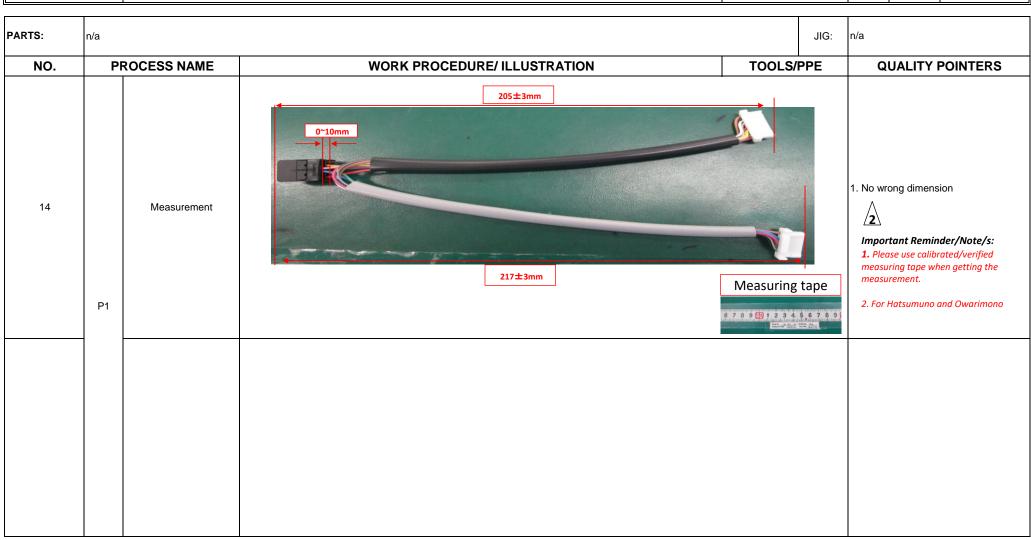
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P1

Visual/By two's

inspection

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	Process Name/Title: TAPING ASSEMBLY PROCESS Validity Date:								n/a		
		Product Name/Code:	011B	/	75L182-0031	Customer:	TRJ	Document No.:		WI-ENG-	PDE-297
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Product Name/Code:	011B / 75L182-0031	Customer:	TRJ	Document No.:	WI-ENG-PDE-297			
Purpose:	PROTOTYPE	PRE-LAUNCH	MASSPRO	Revision No.:	2 Page No.: 14 of 14			
PARTS: n/a	<u>/2</u>	QUALITY CHECK	POINTS	JIG	n/a			
		75L182-	0031					
1. Check the connector lock, should be unlock.		2. Check the wire Make sure no tan		ne)				
3. Check the orien  4. Check if no mis	5. Chec	1	with backing out	6. Compare to mas	ter sample.			