DENSO			<u>Parties outs</u>	side the secret								1 2	15°N	スト
Structure system		ric manufacturing department 2		rgom 4 吉 6/02/08	7]\ 6/02/03	山 3/02/08 t地			Distributi cloth Ahead	en				
Line name		Assembly part number, pa	art name				name					_		
690A MG Stereoline	۵	212100-0 Stater S / A		ar					\$		intity confi	rmation		
System No. Systematic name	<1/1>	Model Product Name	•	<u> </u>			Priority managemer		<u>````</u>	<u> </u>	2 171	17		
12		212101-0 ASSY DR		ctatucor			Toyota 690A							
Heated powder impregnation		A331 DIV	AvviivO, .	statusei			030/1							
		12 por	2-002 wder 2-004 ght measurement 2-005 ti-lead side impregnation of the side impregnation of t	ion ①	F6975 (5b) E			12-003 Two-component mi			·-50			
△ 3 1/23/2017 CleaningNo. Revision Date	the output line clamp	Revision item				Refle		on results during t or revision	the initial flo	W			Kosa Revised	
							ricusUII I						nevised	1. 2. 5011

\triangle 3	1/23/2017	Cleaning the output line clamp	Reflects the examination results during the initial flow	Kosaka
\triangle 2	20161010	Change of control value of heating current value	Clerical corrections	Mountains
\triangle 1	20160810	Change of standard for varnish coating amount	Added as a countermeasure for problems during initial flow	Mountains
No.	Revision Date	Revision item	Reason for revision	Revised person

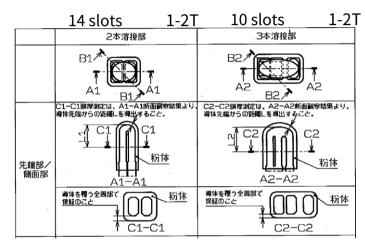
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					Issuing section Electric mail	nufacturing d	lepartment 2 production engineering	Approval exami	ation examinat	ation			Distribution	л					
Pr	ocess	s co	ntro	l statement	date of creation	2/8/	2016	6/02/03	/02/03 坂	/02/08 地)		cloth Ahead						
System No.	-System diagra	am number	Line name			Assembly part number, part name				name For initial flow									
69N	A MG	Sta	reoli	ine			_	Γar			Sec O								
Process No. Process name Station name <2/2>					Model Product N	ame	ı uı			Priority management de		<u>Y</u> 3	<u> </u>	2 1717					
12							100-0080	_			Toyota								
Heated powder impregnation			State	er S / A, Mo	Tar			690A											
<u>-Q</u>	uality>			Characteris Measuring ins			Management interval	Management method Management method	Administrat	tor	Process capability σ, X, Cp, Cpk		ro	emarks		\top	-	ality ID	
	·		1	Main air pressure 0.4 ± 0.05MPa Visual indicator (0.05MPa)			1 / Direct (at the time of work)	Condition management Check sheet	worker	ioi	ο, <i>κ</i> , ορ, ορκ		10	marks			Retation	iship criter	u
			2	IH external output 32 \pm 8%			1 / Direct (at the time of work)	Condition management	worker							\top			
		Н	3	This machine (1%) IH internal output 82 ± 16%			1 / Direct (at the time of work)	Check sheet Condition management	worker							+			
	 ♦	H	Fo	This machine (1%) Energizing current 172 ± 8A			1 / Direct (at the time of work)	Check sheet Condition management	worker							+			
		\prod	Fiv	This machine (1A) coil temperature $180 \pm 20 ^{\circ}$ C when heating in	is completed		1 / Direct (at the time of work)	Check sheet Condition management	worker							+			
		H	6	This machine (1 °C) Powder vial air flow rate 0.3 \pm 0.1 ml	/ s		1 / Direct (at the time of work)	Check sheet Condition management	worker							+			
İ		H	7	Visual indicator (0.01 ml / s) Coil temperature at the start of powder 175	± 35 °C		1 / Direct (at the time of work)	Check sheet Condition management	worker							+			
	\$	H	8	This machine (1 °C) Molding side coating amount ① Targ	et value ± 0.75 g		1 / Direct (at the time of work)	Check sheet Condition management	worker			19.25g	g or mo	re		+			
	\$	H	9	Weighing scale (0.1g) Molding side coating amount ② Targ	et value ± 0.75 g		1 / Direct (at the time of work)	Check sheet Condition management	worker			1.25g	or mor	e		+			
		\blacksquare	Ten	Weighing scale (0.1g) Twist side coating amount ① Target	value ± 0.75g		1 / Direct (at the time of work)	Check sheet Condition management	worker			20.25g	g or mo	re		+			
Ĭ	>	H	11 11	Weighing scale (0.1g) Twist side coating amount ② Target	value ± 0.75g		1 / Direct (at the time of work)	Check sheet Condition management	worker				g or mo			+			
	>	H	12	Weighing scale (0.1g) Unistank temperature 25 \pm 15 $^{\circ}$	°C		1 / Direct (at the time of work)	Check sheet Condition management	worker							+			
		H	13	This machine (1 °C) Varnish mixing ratio 100: 1.4-1	1.5		At the time of setup	Check sheet Recording paper	Team leader							+			
	├ ◇	H	14	Weighing scale (0.1g) OK Master Check			1 / Direct (at the time of work)	Check sheet	worker			1st and 2st w	eighing scale	master		+			
		H	15	This machine (0.1g) OK master value confirmation			1/Y					13t and 23t W	vergriinig scate	master		+			
	i			Offline (0.1g)			1/W	Recording paper	Team leader			_				\bot			
	*	0	16 16	Coil fixing force 10.2N / piece or Push-pull gage (0.01N)			·	submission inspection x-Rs control chart	Partial inspection Team leader							_			
		(C)	17 17	Powder film thickness 0.08 mm or more Cross-section inspection ⇒ Tool microsc			1/W	Submission inspection x-Rs control chart								\bot			
			17 17	Powder front work temperature 175 This machine (0.1 $^{\circ}$ C) * Radiation thermoment			100% 4/Nao	Equipment automatic check xR control chart	worker Team leader							丄			
			18 18	Number of powder immersions 4 \pm 1 times $\label{eq:times}$ This machine (times)			100%	Equipment automatic check	worker										
			19 19	Powder immersion time 0.4 \pm 0 This machine (0.1s)).1s		100%	Equipment automatic check	worker										
			20	Work temperature before impregnation app This machine $(0.1 ^{\circ}\text{C})$ * Radiation thermome			100% 4 / Nao	Equipment automatic check	worker Team leader										
			twenty o	dmpregnation coating amount 48g or more This machine (0.1g) * Weighing scale			4 / Nao	xR control chart	Team leader										
			twenty t	Coating position Molding side ① R81. This machine (0.01 mm)	.7 ± 0.25mm		100% 4 / Nao	Equipment automatic check	worker							\top			
			twenty t	Coating position Molding side ② R74	.7 ± 0.25mm		100%	Equipment automatic check	worker							\top			
			twenty fo	This machine (0.01 mm) Application position Twist side ① R90 ±	0.25mm		4 / Nao 100%	xR control chart Equipment automatic check	worker							+			
			twenty fi	This machine (0.01 mm) Application position Twist side ② R84 ±	0.25mm		4 / Nao 100%	xR control chart Equipment automatic check	worker			+				+			
	•		26	This machine (0.01 mm) Work speed during application Moldi	ng side ① 4.0 ± 0.	.3 rpm	4 / Nao 100%	xR control chart Equipment automatic check	worker							+			
			27	This machine (0.01 mm) Work speed during application Moldi	ng side ② 6.0 ± 0.	.3 rpm	4 / Nao 100%	xR control chart Equipment automatic check	Team leader worker							+			
			28 28	This machine (0.01 mm) Work speed during application Twist	side ① 4.0 ± 0.3 r	rpm	4 / Nao 100%	xR control chart Equipment automatic check	Team leader worker							+			
	*		29	This machine (0.01 mm) Work speed during application Twist			4 / Nao 100%	xR control chart Equipment automatic check	Team leader worker			<u> </u>				+			
	•		30	This machine (0.01 mm)			4 / Nao 100%	xR control chart Equipment automatic check	Team leader worker				Man and a decision of the second of the seco	the re-1.	230.0				
		©	31	Impregnation discharge rotation speed 18.3 rotations on the molding side This machine (0.1 rotation)	anu 30.∠ rotations on the twist side		4 / Nao	xR control chart	Team leader			Guaranteed o	disk speed wit	th substitute	32g or more on the tw characteristics	- 1			
	Í 		21	Appearance Abnormal			2 / Direct + When changing processing conditions	Check	worker		1	^ Refer to t	he limit san	nple					
<u> </u>		3/201		ning the output line clamp						Refl	ects the examination	results during th	ne initial flow	ı				Kosaka	
\triangle 2		61010 60810		age of control value of heating current value							cal corrections						 	Mountain	
No.		sion Date	Chan	ge the control value of varnish coating amount		Revisio	on item			Add	led as a countermea		ems during i n for revisior				_	Mountain evised pers	
	MENIS	Jule										i.ca3011					I C		

DLNSU	<u>Parties outside the secret</u>	
Structure system diagram	Electric manufacturing department 2 production engineering room 4 書	Distribution cloth
Line name	Assembly part number, part name 212100-0080	name For initial flow
690A MG Stereoline	Stater S / A, Mo Tar	Priority management designation S 1 2 1217
System No. Systematic name <1/		Delivery destination, reserved vehicle type
12	212101-0080	Toyota
Heated powder impregnation	ASSY DRAWING, statuser	690A

Measurement site and frequency

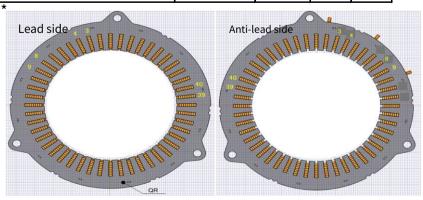
Measurement site	pre-process	Unit	interval	Rotation num
10 slots Vertical ⇒ Horizontal ⇒ Diagonal 14 slots Vertical ⇒ Horizontal ⇒ Diagonal	No. 1 Line	1st	1/W	1
10 slots Vertical ⇒ Horizontal ⇒ Diagonal 14 slots Vertical ⇒ Horizontal ⇒ Diagonal	No. 2 Line	1st	1/W	2
10 slots Vertical ⇒ Horizontal ⇒ Diagonal 14 slots Vertical ⇒ Horizontal ⇒ Diagonal	No. 1 Line	2st	1/W	3
10 slots Vertical ⇒ Horizontal ⇒ Diagonal 14 slots Vertical ⇒ Horizontal ⇒ Diagonal	No. 2 Line	2st	1/W	4

Evaluation items Powder film thickness 0.08µ or more



Measurement site and frequency

Measurement site	pre-process	Unit	interval	Rotation numb
3 slots 1-8T 4 slots 1-8T 8 slots 1-8T 9 slots 1-8T	No. 1 Line	1st	1/W	1
39 slots 1-8T 40 slots 1-8T				
3 slots 1-8T 4 slots 1-8T 8 slots 1-8T 9 slots 1-8T 39 slots 1-8T 40 slots 1-8T	No. 2 Line	1st	1/W	2
3 slots 1-8T 4 slots 1-8T 8 slots 1-8T 9 slots 1-8T 39 slots 1-8T 40 slots 1-8T	No. 1 Line	2st	1/W	3
3 slots 1-8T 4 slots 1-8T 8 slots 1-8T 9 slots 1-8T 39 slots 1-8T 40 slots 1-8T	No. 2 Line	2st	1/W	4

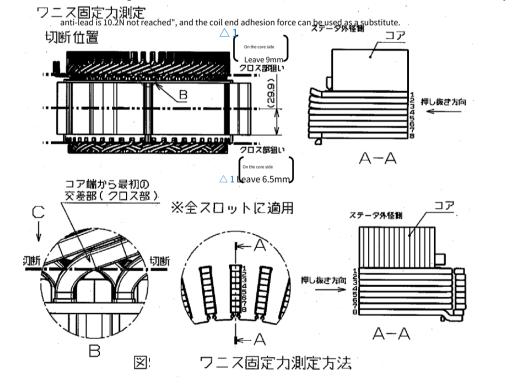


Evaluation items

△1Adhesion force 10.2N or more [Control value 80N or more]

However, if the 8 layers (shift part) on the anti-lead side have no fixing force, $\,$

Evaluate according to the attached sheet "Coil end measurement method when the varnish adhesion force of the 8th layer of



\triangle 3	1/23/2017	Cleaning the output line clamp	Reflects the examination results during the initial flow	Kosaka
\triangle 2	2016.11.25	Change of rotation number of submitted inspection due to Noh increase	Increased front-end process	Mountains
\triangle 1	2016.4.1	Unplugged load cut position, remedy added	Missing description	Mountains
No.	Revision Date	Revision item	Reason for revision	Revised person