## imall

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DCF-S-0033-1(95.5)

Japan Aviation Electronics Industry, Ltd. Connector Division				Numbe	er		Т70	3263	3-E	Page 1∕9
Spec:				Original issued: Feb. 14,2001						
TITLE:			Rev.	Date		DCN-No.	Prep	Chkd	Appd	
Crimp Da	Crimp Data for Series FI-C3-A1 / FI-XC3-1 /				Sep.18.2	003	053322	D.TSURUTA	S.SHIMIZU	A.IWASAKI
FI-AC3-	1 / FI-RC3-	1A / FI-RC3-1	B contacts	3	Nov.20.2	003	053790	S.SHIMIZU	-	A.IWASAKI
ISSUED: 2N	ID PRODUC	CTION Enginee	ering Dept.	4	Jun.20.20	005	057605	T.OOKAWA	S.SHIMIZU	A.IWASAKI
Prepared	Checked	Approved	Approved							
F.Kawano	K.KOIDE	A.IWASAKI	Y.NOSE							

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- Check that operation manual T703000-01E (applicator) is provided in addition to this manual. If not, contact us.
- Be sure to read T703000-01E before operation since all safety precautions are described in it.
- Properly keep this operation manual and T703000-01E near the applicator so that anyone can refer to them at anytime.
- Be sure to use the machine by following the instructions given in this operation manual and T703000-01E. Otherwise, we will not be responsible for any accidents that may result.
- Don't to repair or adjust, without the procedure specified with this operation manual, it cause is to brake the tool or product the rejected items. If you feel the tool abnormally or brake the tool, please inquire our shop or tool service, and repair it.

Japan Aviation Electronics Industry,	Number	T703263-E	Page 2∕9
Connector Division			

1.Applicator

Part description of the applicator used : 350-FI-2B (Applicable Press No.CP210-1B · CP215-4B)

2. Part description of applicable contact and wire

Applicable wire is stranded 7 annealed copper. conductors. Using not specified wire, please ask us whether the wire is usable or not.

Contact part description	Applicable wire	Insulation diameter			
FI-C3-A1-15000	AWG#28 thru AWG#32	$\phi$ 0.45 thru $\phi$ 0.9mm			
FI-XC3-1-15000	AWG#30 thru AWG#36	$\phi$ 0.45 thru $\phi$ 0.75mm			
FI-AC3-1-15000	AWG#30 thru AWG#36	Less than $\phi$ 0.5mm			
FI-RC3-1A-15000	AWG#30 thru AWG#32	$\phi$ 0.44 thru $\phi$ 0.6mm			

Note :The crimper,anvil and crimp condition differ in each contact. For details,plaese refer to paragraph 4.

3.Allpicable wire , insulation diameter , and insulation stripped length
3-1.Applicable wire
Vinyl insulated wire

- 3-2. Insulation stripped length Insulation stripped length: 1.3 thru 1.7mm
  - Note :Please make sure that the insulation stripped length is within the above dimension. At the time , inspect if wire is not damaged , cut , or disheveled. If so , remove or remedy it.

DCF-S-0033-2(95.5)

Japan Aviation Electronics Industry,	Number	T703263-E	Page 3/9
Connector Division			-, -

#### 4.Crimp data by contact type

4-1.FI-C3-A1

4-1-1.Applicable crimper, anvil

	Insulation anvil	Wire anvil	Insulation crimper	Wire crimper
Part discription	725-03161-030	725-03200-031	725-03200-032	725-03200-033
Inscribed NO.	161-30	200-31	200-32	200-33

4-1-2.Applicable wire, crimp height, crimp tensile strength, Disk set mark

Disk Set	Wire Size	Crimp Height Range	Min.Crimp Tensile
Mark	(AWG)	(mm)	Strength (N)
С	AWG#28	0.45 thur 0.50	13.1N
D	AWG#30	0.43 thur 0.48	9.8N
E	AWG#32	0.40 thur 0.45	5.8N

4-1-3Crimp height adjustment disc set mark, Insulation cam set mark and Insulation diameter

Disc	Insulation Cam set Mark set Mark	1~3	4	5	6	7	8
С	Insulation Dia.	_	$\phi$ 0.90 $\sim$ 0.8	φ <b>0.7</b>	φ 0.6	$\phi$ 0.5	—
C	Insulation Support Height		1.05	0.95	0.85	0.75	—
D	Insulation Dia.	_	$\phi$ 0.9 $\sim$ 0.75	$\phi$ 0.65	$\phi$ 0.55	$\phi$ 0.45	—
	Insulation Support Height	_	1.05	0.95	0.85	0.75	—
E	Insulation Dia.		$\phi$ 0.9 $\sim$ 0.75	$\phi$ 0.65	$\phi$ 0.55	$\phi$ 0.45	_
E	Insulation Support Height	_	1.00	0.90	0.80	0.70	—

Note: The figures shown in above table are not specified values, but for reference purposes only.

Japan Aviation Electronics Industry,	Number	T703263-E	Page 4/9
Connector Division			, -

4-2.FI-XC3-1,FI-AC-3-1,FI-RC3-1A&FI-RC3-1B

4-2-1. Applicable crimper, anvil

	Insulation anvil	Wire anvil	Insulation crimper	Wire crimper
Part discription	725-03249-030	725-03249-031	725-03249-032	725-03249-033
Inscribed NO.	249-30	249-31	249-32	249-33

#### 4-2-2.Applicable wire, crimp height, crimp tensile strength, Disk set mark

Disk Set	Wire Size	Crimp Height Range	Min.Crimp Tensile
Mark	(AWG)	<b>(</b> mm)	Strength (N)
С	AWG#30	0.40 thur 0.45	9.8N
D	AWG#32	0.375 thur 0.425	5.8N
E	AWG#36	0.35 thur 0.40	1.9N

4-2-3.Crimp height adjustment disc set mark, Insulation cam set mark and Insulation diameter FI-XC3-1

Disc	Insulation Cam set Mark set Mark	1	2	3	4	5	6	7	8
С	Insulation Dia.	—	φ0.75	φ0.7	φ0.6	φ0.5	_	_	—
U	Insulation Support Height	—	1.0	0.9	0.8	0.7	—	—	—
D	Insulation Dia.	—	_	$\phi$ 0.65	φ0.55	φ0.45	—	—	—
	Insulation Support Height	_	_	0.85	0.75	0.65	_	_	—
Е	Insulation Dia.	—	_	_	φ0.55	φ0.45	_	_	
	Insulation Support Height	_	_		0.7	0.6	_	_	_

#### FI-AC3-1

Disc	Insulation Cam set Mark set Mark	1	2	3	4	5	6	7	8
С	Insulation Dia.	—	_	—	—	_	φ0.5	—	—
	Insulation Support Height	—	—	—	—	—	0.5	—	—
D	Insulation Dia.	—	—	—	—	—	φ0.45	—	—
	Insulation Support Height	—	—	—	—	_	0.5	—	—
E	Insulation Dia.	—	—	—	—	-	φ0.45	—	—
E	Insulation Support Height	—	—	—	—	_	0.5	—	—

Connector Division Number T703263-E 5/9	Japan Aviation Electronics Industry, Connector Division	Number	T 7 0 3 2 6 3-E	Page 5⁄9
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#### FI-RC3-1A & FI-RC3-1B

Insulation Cam set Mark	1~2	3	4	5~7
Insulation diameter.		$\phi$ 0.6	$\phi$ 0.5	
Insulation Support Height		0.85	0.75	

Note1: Be sure to make the insulation hight under 0.53mm on FI-AC3.

(Over 0.53mm is not acceptable due to the insulation diameter of housing. It is 0.54mm.)

Note2: The figures shown in above table are not specified values, but for reference purposes only.

#### 5.Notes in operation

5-1

FI series contacts are so small in size, it may happen that a crimper strikes against an anvil and they become damaged when making crimping with a contact and wire being not installed.

To maintain the quality, be sure to make crimping with a contact and wire being installed.

5-2

It is not easy to locate a wire with a wire stopper because the applicable wires this contact are very thin.

It is recommended that a wire is put on the contact barrel in advance before making crimping.

5-3

This tool can use for FI-C3-A1, FI-XC3, FI-AC3, FI-RC3-1A and FI-RC3-1B by changing the crimper, anvil

When this tool is delivered, the specified crimper, anvil has built in already.

To purchase another crimper, anvil. please make sure the proper part number according to the assembly procedure of contact or following chart.

Crimper, anvil Contact	Insulation anvil	Wire anvil	Insulation crimper	Wire crimper
FI-C3-A1	725-03161-030	725-03200-031	725-03200-032	725-03200-033
FI-XC3·AC3-1 ·RC3-1A·RC3-1B	725-03249-030	725-03249-031	725-03249-032	725-03249-033

Japan Aviation Electronics Industry,	Number	T 7 0 3 2 6 3-E	Page 6∕9
Connector Division			

#### 6.Check of the crimped contact

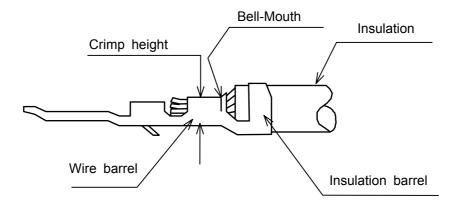
This paragraph provides criteria of discrimination of "Proper" crimped contact after crimping operation.

For detail information about this ,please refer to manual JAHL.

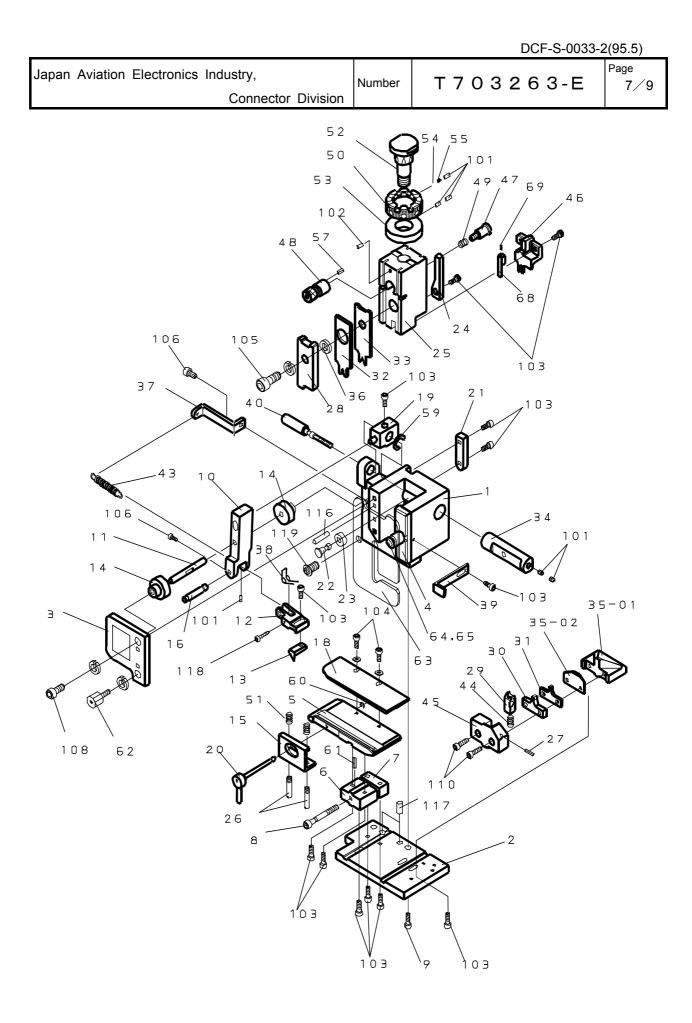
#### Proper Crimped Contact:

" Proper crimped contact " is crimped as shown below.

- (1) Crimp height is satisfied with crimp standard.(refer to para.4)
- (2) Wire strands tip is extended from the wire barrel.
- (3) Wire insulation does not intrude into the wire barrel.
- (4) Wire strands do not protrude between the wire barrel and the insulation barrel.
- (5) Wire insulation is wrapped in the insulation barrel.
- (6) Bell-mouth(not crimped part)is formed.
- (7) Crimped surface is not got too rough.



BLOWN-UP VIEW OF APPLICATOR



				DCF-S-0033-2	2(95.5)
Japan Aviatio	on Electronics Industry,		T 7 0 0		Page
	Connector Division	Number	Τ703	263-E	8⁄9
	PARTS LIST OF		TOR		
INDEX NO.	DESCRIPTION		PARTS NO.	QTY	
1	Applicator body		13-03005-001	1	
2	Base plate		22-03013-002	1	
3	Left slide guide		22-03005-003	1	
4	Right slide guide		22-03004-004	1	
5	Contact feed plate		22-03005-005	1	
6	Adjusting plate		13-03004-006	1	
7	Fixed plate		13-03004-007	1	
8	Adjusting screw	70	)1-03004-008	1	
9	Applicator set screw	75	50-03004-009	2	
10	Feed lever	74	2-03005-010	1	
11	Feed lever shaft	70	08-03005-011	1	
12	Feed finger holder	73	34-03004-012	1	
13	Feed finger	73	32-03004-013	1	
14	Pivot bush	71	0-03005-014	2	
15	Contact pressure plate	72	23-03005-015	1	
16	Pin for feed	70	04-03005-016	1	
17					
18	Feed plate cover	72	22-03263-018	1	
19	Pivot block	74	13-03004-019	1	
20	Lift cam unit	70	0-03004-020	1	
21	Кеу	72	23-03004-021	1	
22	Roller pin	70	)4-03004-022	1	
23	Roller	71	1-03004-023	1	
24	Feed actuating cam	74	1-03004-024	1	
25	Crimper holder	74	3-03081-025	1	
26	Screw for contact hold	70	)1-03004-026	2	
27	Spring pin for movable cutter			1	
28	Front actuator unit	70	0-03092-028	1	
29*	Front movable cutter	72	26-03263-029	1	
30	Insulation anvil		fer to para 4	1	
31	Wire anvil			1	
32	Insulation crimper		//	1	
33	Wire crimper			1	
34	Feed actuating lever	74	 12-03004-034	1	
35-01	Anvil block		-03247-035-01	1	
35-01	Anvil spacer		-03263-035-01	1	
36	Insulation spacer		1-03092-036	1	
30 37	Feed spring bracket		4-03092-030	1	
38	Twisted spring	70	62-03004-038	1	

DCF-S-0033-2(95.5)

				DCF-S-0033-2	2(95.5)
Japan Aviatio	on Electronics Industry,	Number	Т703:	263-E	Page 9∕9
	Connector Division				
INDEX NO.	DESCRIPTION	F	PARTS NO.	QYT	
39	Wire stopper unit	70	0-03263-039	1	
40	Feed adjusting shaft	70	8-03004-040	1	
43	Feed spring	76	62-03004-043	1	
44	Cutter spring	76	62-03004-044	1	
45	Cutter block	74	13-03092-045	1	
46	Positioner	72	24-03263-046	1	
47	Set-screw for insulation cam	70	1-03004-047	1	
48	Insulation cam unit	70	0-03004-048	1	
49	Spring for insulation cam	76	62-03004-049	1	
50	Crimp-height adjusting disk	71	5-03023-050	1	
51	Contact pressure spring	76	62-03004-051	2	
52	Crimp-height locating shaft	70	8-03004-052	1	
53	Spacer	71	5-03132-053	1	
54	Locating ball	76	5-03004-054	1	
55	Spring for locating ball	76	62-03004-055	1	
57	Locating pin for insulation cam			1	
59	E-ring for feed adjusting shaft	75	54-03004-059	1	
60	E-ring for cam shaft	75	54-03004-060	1	
61	Pin for adjusting screw			1	
62	Bolt for safety cover	70	)1-03005-062	1	
63	Safety cover	74	18-03005-063	1	
64	Fastening screw for safety cover	70	)1-03005-064	1	
65	Collar	71	1-03005-065	1	
68	Wire pressure	72	27-03247-068	1	
69	Wire pressure spring	76	62-03247-069	1	
101	Screw with hexagonal hole		M4×4	7	
102	11		11	2	
103	Bolt with hexagonal hole		$M4 \times 10$	11	
104	11		]]	4	
105	11		M8×20	1	
106	11		M5×10	1	
107	11		M3×4	1	
108	11		M6×15	4	
110	11	Μ	4×30 or 35	2	
116	Knock pin		φ 5×20	2	
117			φ 5×20 φ 6×15	2	
118	" Bolt with hexagonal hole		φ 0 × 15 M3 × 15	1	
110	Cross head screw assembling washe	r		1	
119	Cross rieau screw assembling washe	I	M4×10	I	