

REV.
A

AS81969™/8

FEDERAL SUPPLY CLASS
5120

RATIONALE

REVISION REQUIRED TO CORRECT TABLE 3 AND DO MINOR EDITORIAL CHANGES.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81969.

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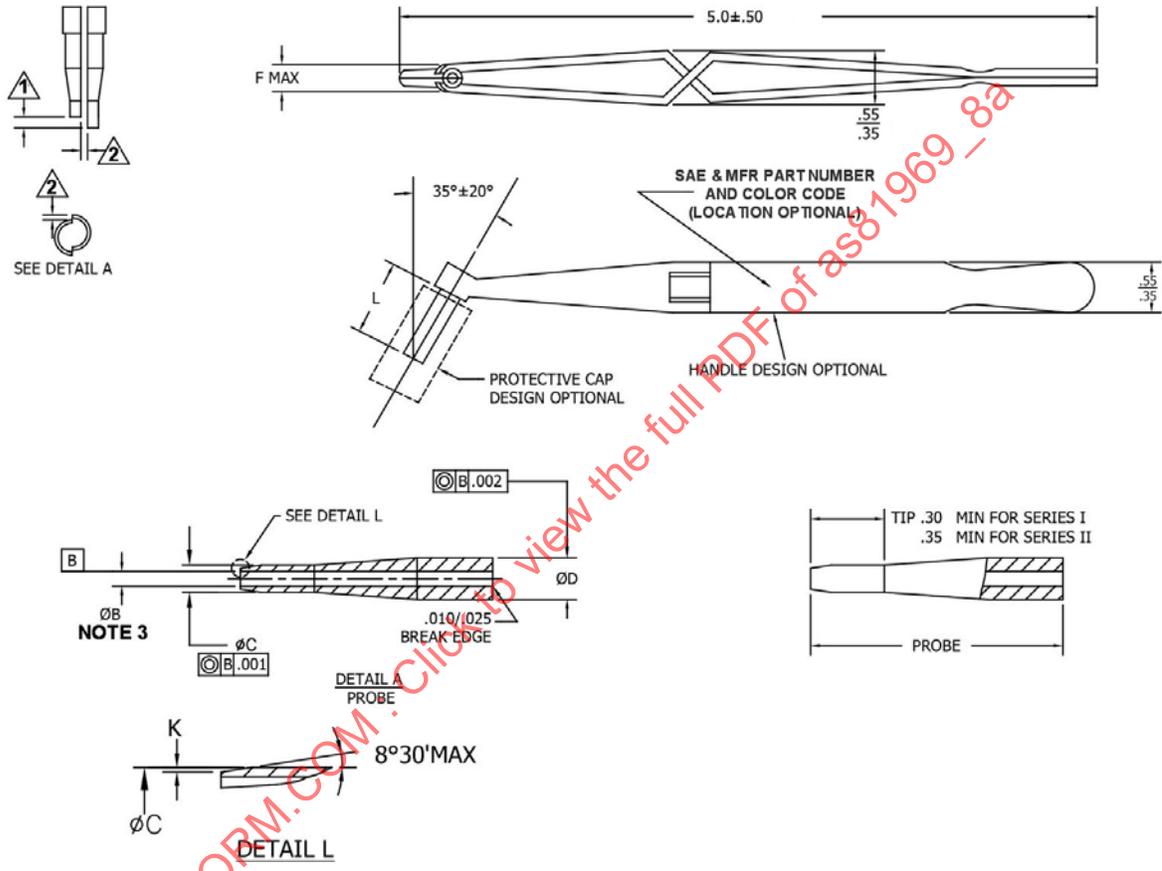
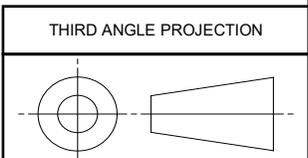


FIGURE 1 - ANGLE PROBE INSTALLING TOOL CONFIGURATION
(-01,-03,-05,-07,-09,-11,-13,-15,-205,-207,-209) (SEE TABLE 1)

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CUSTODIAN: AE-8C/AE-8C2 PROCUREMENT SPECIFICATION: AS81969



AEROSPACE STANDARD
INSTALLING AND REMOVAL TOOLS, CONNECTOR
ELECTRICAL CONTACT, TYPE I & II, CLASS 2,
COMPOSITION A

AS81969™/8
SHEET 1 OF 8

REV. A

ISSUED 2014-04 REVISED 2016-05 REAFFIRMED 2021-08

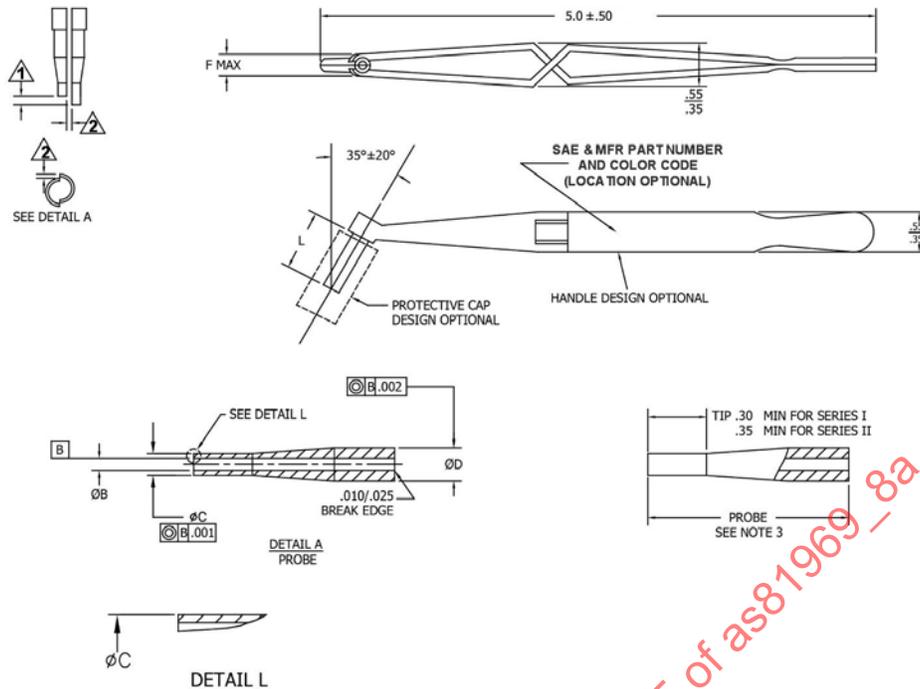


FIGURE 2 - ANGLE PROBE REMOVAL TOOL CONFIGURATION
 (-02,-04,-06,-08,-10,-12,-14,-16,-206,-208, AND -210) (SEE TABLE 2)

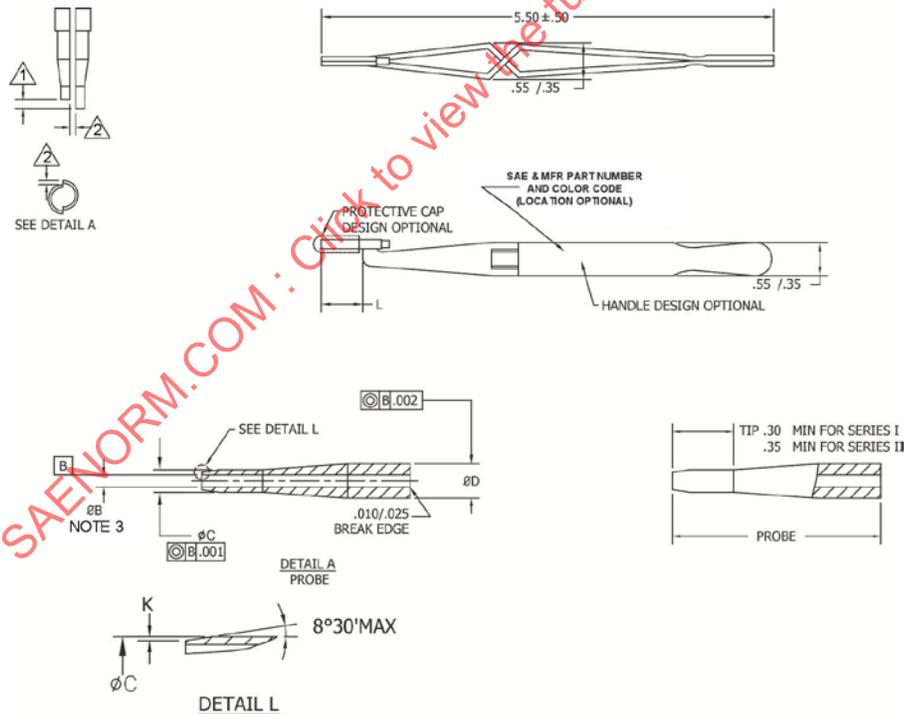


FIGURE 3 - INLINE PROBE INSTALLING TOOL CONFIGURATION
 (-301,-303,-305,-307,-309,-311, -313, AND -315) (SEE TABLE 1)

	AEROSPACE STANDARD	AS81969™/8 SHEET 2 OF 8	REV. A
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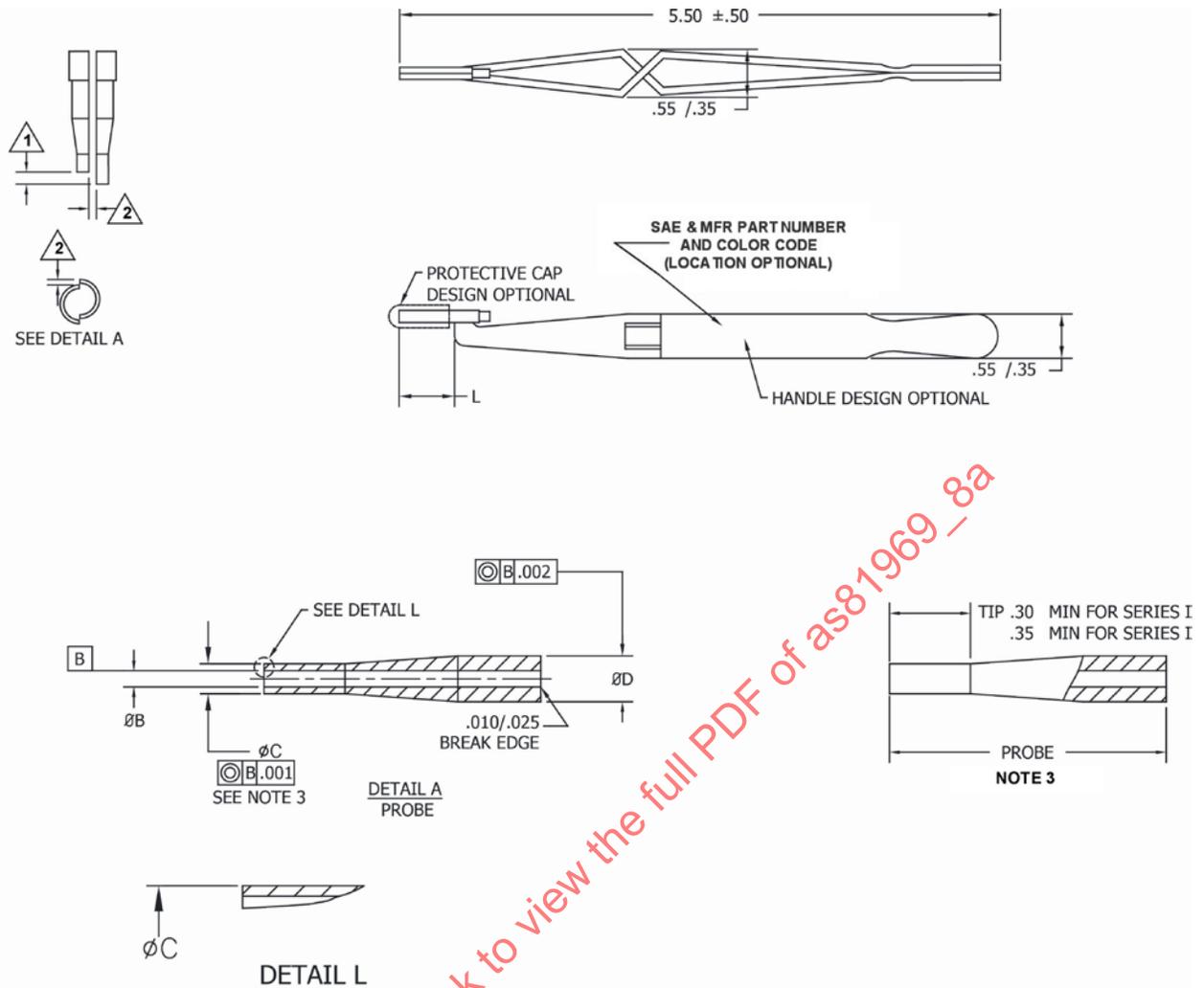


FIGURE 4 - INLINE PROBE REMOVAL TOOL CONFIGURATION (-002-302,-304,-306,-308,-310,-312, -314, AND -316) (SEE TABLE 2)

DRAWING NOTES (APPLIES TO FIGURES 1, 2, 3, AND 4):

NOTE 1 - WITH PROBES IN THE FREE STATE POSITION, THE PROBES SHALL END-ALIGN WITHIN .005 INCH.

NOTE 2 - WITH PROBE CLOSED AROUND "A" DIAMETER PIN, THE PROBE SHALL ALIGN THEMSELVES WITHIN .001 INCH THROUGHOUT THE "L" LENGTH AND CLEARANCE BETWEEN PROBE SHALL BE .000 TO .006 INCH FOR THE INSTALLING TOOL AND .000 TO .002 FOR REMOVAL TOOL FOR THE ENTIRE LENGTH OF THE PROBE. THIS CLEARANCE SHALL BE CENTRAL TO THE CENTER LINE OF THE C DIAMETER WITHIN ±.002 INCHES.

NOTE 3 - "B" DIAMETER TOLERANCE SHALL BE ±.001 FOR TIP AND +.010/-.001 FOR BALANCE OF PROBE.

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TABLE 1 - INSTALLING TOOL CONFIGURATION (SEE FIGURES 1 AND 3)

SIZE	DASH NO.	FIG	HANDLE COLOR CODE			PIN GAGE 1/	ØB 2/ +0.001 -0.001	ØC +0.000 -0.001	ØD +0.003 -0.003	F MAX	RING GAGE 3/	PIN GAGE 3/	K	L +0.015 -0.015
			NO. 1	NO. 2	NO. 3	ØA +0.0000 -0.0002					ØH +0.0000 -0.0002	ØJ +0.0002 -0.0000		
ANGLE PROBE INSTALLING TOOL FOR MIL-DTL-38999, MIL-DTL-55302, AS81714, AND MIL-DTL-83733 CONNECTORS (SEE TABLE 3)														
23	-15	1	BLACK	--	--	.0515	.050	.058	.113	.232	.0585	.0485	.002/ .000	.650
22D 22M	-01		GREEN	---	---	.0545	.053	.0645	.113	.232	.0645 4/	.0515	.004/ .002	.650
22	-03		BROWN	---	---	.0625	.061	.074	.113	.236	.0745	.0595	.0045/ .0025	.650
20	-05		RED	---	---	.0855	.084	.097	.113	.254	.0975	.0825	.0045/ .0025	.650
16	-07		BLUE	---	---	.1115	.110	.133	.135	.287	.1335	.1085	.007/ .005	.650
12	-09		YELLOW	---	---	.1595	.158	.187	.189	.335	.1875	.1565	.008/ .006	.650
10	-11		GREEN	---	---	.2165	.215	.249	.251	.401	.2495	.2135	.010/ .008	.650
8	-13		RED	---	---	.2795	.278	.317	.320	.475	.3175	.2765	.016/ .012	1.100
ANGLE PROBE INSTALLING TOOL FOR AS50151, MIL-DTL-26482, AS81703, AS81714, MIL-DTL-83723, AND MIL-DTL-83733 CONNECTORS (SEE TABLE 3)														
20	-205	1	RED	---	BLACK	.0855	.084	.104	.113	.262	.1045	.0825	.005/ .003	.950
16	-207		BLUE	---	BLACK	.1115	.110	.134	.137	.291	.1345	.1085	.007/ .005	1.200
12	-209		YELLOW	---	BLACK	.1625	.161	.191	.194	.343	.1915	.1595	.008/ .006	1.200
INLINE PROBE INSTALLING TOOL FOR MIL-DTL-38999, MIL-DTL-55302, AS81714, AND MIL-DTL-83733 CONNECTORS (SEE TABLE 3)														
23	-315	3	BLACK	---	---	.0515	.050	.058	.113	.232	.0585	.0485	.002/ .000	.650
22D 22M	-301		GREEN	---	---	.0545	.053	.0645	.113	.232	.0645 4/	.0515	.004/ .002	.650
22	-303		BROWN	---	---	.0625	.061	.074	.113	.236	.0745	.0595	.0045/ .0025	.650
20	-305		RED	---	---	.0855	.084	.097	.113	.254	.0975	.0825	.0045/ .0025	.650
16	-307		BLUE	---	---	.1115	.110	.133	.135	.287	.1335	.1085	.007/ .005	.650
12	-309		YELLOW	---	---	.1595	.158	.187	.189	.335	.1875	.1565	.008/ .006	.650
10	-311		GREEN	---	---	.2165	.215	.249	.251	.401	.2495	.2135	.010/ .008	.650
8	-313		RED	---	---	.2795	.278	.317	.320	.475	.3175	.2765	.016/ .012	1.100

1/ SEE DRAWING NOTE 2
 2/ SEE DRAWING NOTE 3
 3/ SEE DRAWING NOTE 2 AND RING GAGE REQUIREMENT 1
 4/ TOLERANCE +.0002, -.0000

TABLE 2 - REMOVAL TOOL CONFIGURATION (SEE FIGURES 2 AND 4)

SIZE	DASH NO.	FIG.	HANDLE COLOR CODE			PIN GAGE 1/	TOOL TIP 2/	ØC + .000 - .001	ØD + .003 - .003	F MAX	RING GAGE 3/	PIN GAGE 3/	L + .015 - .015
			NO. 1	NO. 2	NO. 3	ØA + .0000 - .0002	ØB + .001 - .001				ØH + .0000 - .0002	ØJ + .0002 - .0000	
ANGLE PROBE REMOVAL TOOL FOR MIL-DTL-38999, MIL-DTL-55302, AS81714, AND MIL-DTL-83733 CONNECTORS (SEE TABLE 3)													
23	-16	2	BLACK	--	--	.0515	.050	.058	.113	.232	.0585	.0485	.650
22D 22M	-02		GREEN	WHITE	---	.0545	.053	.0645	.113	.232	.0645 4/	.0515	.650
22	-04		BROWN		---	.0625	.061	.074	.113	.236	.0745	.0595	.650
20	-06		RED		---	.0855	.084	.097	.113	.254	.0975	.0825	.650
16	-08		BLUE		---	.1115	.110	.133	.135	.287	.1335	.1085	.650
12	-10		YELLOW		---	.1595	.158	.187	.189	.335	.1875	.1565	.650
10	-12		GREEN		---	.2165	.215	.249	.251	.401	.2495	.2135	.650
8	-14		RED		---	.2795	.278	.317	.320	.475	.3175	.2765	1.100
20	-206		RED		BLACK	.0855	.084	.104	.113	.262	.1045	.0825	.950
16	-208		BLUE		BLACK	.1115	.110	.134	.137	.291	.1345	.1085	1.200
12	-210		YELLOW		BLACK	.1625	.161	.191	.194	.343	.1915	.1595	1.200
INLINE PROBE REMOVAL TOOL FOR MIL-DTL-38999, MIL-DTL-55302, AS81714, AND MIL-DTL-83733 CONNECTORS (SEE TABLE 3)													
23	-316	4	BLACK		WHITE	---	.0515	.050	.058	.113	.232	.0585	.0485
22D 22M	-302		GREEN	---		.0545	.053	.0645	.113	.232	.0645 4/	.0515	.650
22	-304		BROWN	---		.0625	.061	.074	.113	.236	.0745	.0595	.650
20	-306		RED	---		.0855	.084	.097	.113	.254	.0975	.0825	.650
16	-308		BLUE	---		.1115	.110	.133	.135	.287	.1335	.1085	.650
12	-310		YELLOW	---		.1595	.158	.187	.189	.335	.1875	.1565	.650
10	-312		GREEN	---		.2165	.215	.249	.251	.401	.2495	.2135	.650
8	-314		RED	---		.2795	.278	.317	.320	.475	.3175	.2765	1.100

1/ SEE DRAWING NOTE 2
 2/ SEE DRAWING NOTE 3
 3/ SEE DRAWING NOTE 2 AND RING GAGE REQUIREMENT 1
 4/ TOLERANCE +.0002, -.0000

