

REV	F	APPLICATION	
		NEXT ASSY	USED ON
SHT	1		
NAVSEA DRAWING NO	6872811		

	REVISIONS		
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED AS REVISION A.	10/5/94	
B	UPDATE OF REVISION A.	3/24/95	
C	UPDATE OF REVISION B.	9/30/99	
D	UPDATE OF REVISION C.	3/6/19	
E	UPDATE OF REVISION D	9/1/20	
F	ADD NEW ITEM NUMBERS	9/29/21	<small>X</small> Christopher Good New ORIGIN

ESWBS
499

NOTES:

- IDENTIFICATION OF THE SUGGESTED ITEMS HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY.
- SUBSTITUTION OF ITEMS IS NOT ALLOWED WITHOUT APPROVAL OF THE DESIGN ACTIVITY, NAVAL SURFACE WARFARE CENTER DAHLGREN DIVISION, CODE A31.
- INDIVIDUAL ITEMS SHALL BE PROCURED USING THE VENDOR PART NUMBER. APPROVED VENDOR PART NUMBERS CAN BE OBTAINED BY CROSS REFERENCING THE LISTED RECOMMENDED TOOLS ID TO THE RECOMMENDED TOOLS LIST AVAILABLE ON THE WEBSITE LISTED ON SHEET 5
- COMPLETE KITS SHALL BE PROCURED USING THE BASE DRAWING NUMBER ONLY.
- QUANTITIES SHOWN ARE FOR THE INDIVIDUAL ITEMS AND MAY NOT CORRESPOND TO THE QUANTITY SUPPLIED FOR THE VENDOR PART NUMBER LISTED.
- ITEM 38 IS AN ALTERNATE ITEM FOR ITEM 25. EITHER ITEM 25 OR ITEM 38 IS TO BE PROVIDED.
- ITEM 23 IS NOT TO BE SUPPLIED WITH COMPLETE KITS.
- THIS KIT ALSO SUPPORTS THE SC CONNECTOR (TIA-604-3) AND THE LC CONNECTOR (TIA-604-10).
- ITEM 1 IS A CRIMPER BODY HAVING ITEM 2, 42 AND 43 AS SWAPPABLE DIE SETS. ITEM 33, 44 AND 45 ARE FULL CRIMPER ASSEMBLIES. KIT SHALL CONTAIN EITHER AN APPROVED CRIMP BODY WITH SWAPPABLE DIES OR SEPARATE FULL CRIMP TOOL ASSEMBLIES
- LC BACKFIT KITS FOR UPGRADING PREVIOUSLY FIELDIED TOOLKITS SHALL CONTAIN ITEMS 39, 40, 41, AND 45.

REV STATUS OF SHEETS	REV	F	E	E	E	F														
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:	CAGE CODE CONTRACT NO.			DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND WASHINGTON, D.C. 20362-5101					
	APPROVED	D. KNUDSEN	9/30/99						
FRACTIONS +/-	DECIMALS .xx+/-	ENGINEER	G. BROWN	9/30/99	TOOL KIT, ST CONNECTOR (MIL-C-83522), FIBER OPTIC, NAVY SHIPBOARD				
ANGLES P	.xxx+/-	CHECKED	E. BLUEBOND	9/30/99					
DO NOT SCALE DRAWING		PREPARED	G. BROWN	9/30/99					
MATERIAL:	ACCEPTED FOR NAVSEA	H. LEWIS		9/30/99	SIZE	CAGE	ESWBS	DRAWING NO.	REV
FINISHES:	APPROVED BY NAVSEA	SIGNATURE DOES NOT DENOTE APPROVAL			A	53711	499	6872811	F
		(SIGN ONLY IF ENGINEERING HAS BEEN PROVED BY MANUFACTURE AND TEST)			SCALE: NONE	UCI	WT GRP	SHEET	1 of 5

ESWBS 499
 NAVSEA DRAWING NO. 6872811
 SHT 2
 REV E

ITEM NO.	NATIONAL STOCK NUMBER	QTY REQD	① COMBINATION OF ADOPTED ITEMS	RECOMMENDED TOOLS (TL)
NA	5180 01 416 0565	-	NAVY SHIPBOARD, MIL-C-83522 FIBER OPTIC TOOL KIT, COMPOSED OF:	
1	5120 01 419 3735	1	CRIMPER BODY	TL-0021
2	5120 01 419 4363	1	SINGLE DIE SET FOR ITEM NO. 1 HAVING .090 AND .105 INDENT RING AND .190 HEX (FOR MIL-C-83522)	TL-0023
3	6080 01 377 4502	1	POLISHING PLATE GLASS 6x6x.25"	TL-0062
5	6675 01 420 5614	1	TEMPLATE, CUT LENGTH	TL-0083
6	6650 00 994 6883	1	EYE LOUPE 7x FOR FIBER VIEWING	TL-0033
7	5110 01 419 4360	1	CLEAVER, FIBER OPTIC	TL-0014
8	5110 01 419 3137	1	STRIP TOOL, CABLE JACKET	TL-0012
9	5110 01 419 4361	1	STRIP TOOL, OPTICAL FIBER	TL-0078
10	5110-00-246-0975	1	STRIPPER, OFCC, 18 AWG (.0395)	TL-0081
11	6230 01 419 5898	1	FLASHLIGHT	TL-0034
12	5210 00 725 7347	1	SCALE, 6"	TL-0069
13	NONE	-	CURING OVEN ASSEMBLY COMPOSED OF:	TL-0027
	4430 01 419 6383	1	CURING OVEN	
	6070 01 420 7682	1	HEATER BLOCK	
	6070 01 430 4607	1	CABLE STAND	
	5365 01 420 3692	1	CABLE STAND RING	
	5340 01 422 2168	2	CABLE CLIPS	
14	6540 01 443 7953	1	SPECTACLES, NYLON UTILITY FLEX HEAD	TL-0071
15	8125 01 439 5367	1	DISPENSER SOLVENT 4 oz LEAK PROOF	TL-0030

SIZE A	CAGE 53711	ESWBS 499	DRAWING NO. 6872811	REV E
SCALE: NONE UCI		WT GRP	SHEET 2 of 5	

REV E
SHT 3
NAVSEA DRAWING NO. 6872811
ESWBS 499

ITEM NO.	NATIONAL STOCK NUMBER	QTY REQD	① COMBINATION OF ADOPTED ITEMS	RECOMMENDED TOOLS (TL)
16	5110 01 419 5283	1	KEVLAR SHEARS	TL-0045
17	6838 01 038 4517	1	CANNED AIR	TL-0013
18	7920 01 321 6791	25	CLOTH, CLEANING, WHITE	TL-0016
19	5350 01 376 9388	1	POLISHING PAPER, 1 MICRON ALUMINUM OXIDE, MYLAR BACK SHEET, 5.5"x5.5" MIN, 50 PK	TL-0057
20	5350 01 420 1454	1	POLISHING PAPER, 5 MICRON ALUMINUM OXIDE, FOAM BACK SHEET, 5.5"x5.5" MIN, 50 PK	TL-0058
21	8040 01 421 3510	6	EPOXY, BI-PACK, MIL-A-24792	TL-0032
22	5120 01 438 6563	5	SYRINGE WITH TWIST ON DISPENSING NEEDLES, 3mL	TL-0082
23	6505 00 205 6513	1	ISOPROPYL ALCOHOL, 99% PURE ANHYDROUS	TL-0044
24	9505 01 376 9398	1	125 UM CONNECTOR CLEANING WIRE (3 EA) WITH CONTAINER	TL-0001
25	NONE	-	MICROSCOPE, 400X COMPOSED OF:	TL-0049
	6650 01 420 0232	1	MICROSCOPE BODY WITH IR FILTER	
	6650 01 420 0231	1	20X EYEPIECE	
	6650 01 420 0233	1	20X OBJECTIVE	
	6070 01 421 1234	1	CONNECTOR MOUNT, 1/8"-1/4"	
	6240 00 155 7786	1	INCANDESCENT LAMP	
26	8125 01 428 8839	1	WATER BOTTLE, 4 oz SQUEEZE WITH CAP	TL-0097
27	6070 01 420 0551	12	CURE ADAPTER, FOR MIL-C-83522	TL-0024
29	NONE	1	TOOLKIT CASE, SINGLE TERMINUS CONNECTOR, FIBER OPTIC, NAVY SHIPBOARD	TL-0087
30	NONE	1	POLISHING TOOL, FOR MIL-C-83522 AND TIA-604-3	TL-0122

SIZE A	CAGE 53711	ESWBS 499	DRAWING NO. 6872811	REV E
SCALE: NONE UCI		WT GRP	SHEET 3 of 5	

REV E
SHT 4
NAVSEA DRAWING NO. 6872811
ESWBS 499

ITEM NO.	NATIONAL STOCK NUMBER	QTY REQD	① COMBINATION OF ADOPTED ITEMS	RECOMMENDED TOOLS (TL)
31	5350 01 620 1305	1	POLISHING PAPER, 0.1 MICRON DIAMOND, MYLAR BACK SHEET, 5.5" DIAMETER MIN, 3 SHTS	TL-0060
32	NONE	1	MIL-C-83522 BOOT RING TOOL	TL-0051
33	NONE	1	CRIMP TOOL WITH DIE SET HAVING .195, .140, AND .110 CIRCULAR CAVITIES, FOR TIA-604-3	TL-0019
34	6070 01 408 6275	1	RESILIENT PAD, 70 TO 90 DUROMETER, 5.5"x5.5" MIN	TL-0067
35	6060 01 478 9450	6	CURE ADAPTER, FOR TIA-604-3	TL-0025
36	7690 01 478 9546	1	TEMPLATE, CUT LENGTH, TIA-604-3	TL-0084
37	6060 01 478 9985	2	HYBRID ADAPTER, MIL-C-83522 TO TIA-604-3	TL-0036
38	NONE	-	ALTERNATE MICROSCOPE, 400X COMPOSED OF:	TL-0050
	NONE	1	MICROSCOPE BODY WITH IR FILTER	
	6650 01 420 0231	1	20X EYEPIECE	
	6650 01 420 0233	1	20X OBJECTIVE	
	NONE	1	INCANDESCENT LAMP	
39	3120 01 620 1655	1	POLISHING TOOL, (PUCK), LC CONNECTOR	TL-0121
40	6060 01 620 1658	12	CURE ADAPTERS, LC CONNECTOR (TIA-604-10) 1.25 mm	TL-0117
41	6060 01 643 9207	1	LC 400x SCOPE ADAPTER	TL-0146
42		1	SINGLE DIE SET FOR ITEM NO. 1 HAVING .195, .140, AND .110 CIRCULAR CAVITIES, FOR TIA-604-3	TL-0119
43		1	SINGLE DIE SET FOR ITEM NO. 1 HAVING 0.113", -0.120" HEX FOR LC	TL-0118
44		1	FULL CRIMPER ASSEMBLIES: CRIMP TOOL WITH DIE SET HAVING .090 AND .105 INDENT RING AND .190 HEX (FOR MIL-C-83522)	TL-0018
45		1	CRIMP TOOL WITH DIE SET HAVING 0.113", -0.120" HEX FOR LC	TL-0116

SIZE A	CAGE 53711	ESWBS 499	DRAWING NO. 6872811	REV E
SCALE: NONE UCI		WT GRP	SHEET 4 of 5	

ESWBS 499
 NAVSEA DRAWING NO. 6872811
 SHT 5
 REV F

ITEM NO.	NATIONAL STOCK NUMBER	QTY REQD	① COMBINATION OF ADOPTED ITEMS	RECOMMENDED TOOLS (TL)
46		1	CONNECTOR CLEANING TAPE CASSETTE, REEL CLEANER TYPE	TL-0115
47		2	ADAPTER, MIL-C-83522 (ST TO ST)	TL-0156
48		2	ADAPTER, TIA-604-10 (LC TO LC)	TL-0155

FOR A COMPLETE LIST OF VENDORS APPROVED TO MANUFACTURE AND SELL, PLEASE SEE THE NAVY APPROVED FIBER OPTIC TOOLS LIST ON THE NAVY SHIPBOARD FIBER OPTIC WEBSITE LOCATED AT <http://www.navsea.navy.mil/Home/Warfare-Centers/NSWC-Dahlgren/What-We-Do/Navy-Shipboard-Fiberoptics/>, OR EMAIL DLGR_NSWC_foweb@navy.mil. VENDOR PART NUMBERS ARE ALSO LOCATED ON THE WEBSITE.

SIZE A	CAGE 53711	ESWBS 499	DRAWING NO. 6872811	REV F
SCALE: NONE		UCI	WT GRP	SHEET 5 of 5