

CSP 6620A

REGISTER NO.

SECRET-CRYPTO

CRYPTOGRAPHIC EQUIPMENT  
PLANNING AND REFERENCE  
GUIDE (U)

CSP 6620A

DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
SEPTEMBER 1962

EXCLUDED FROM AUTOMATIC  
DECLASSIFICATION FOR DIR 5200.10  
PPLY

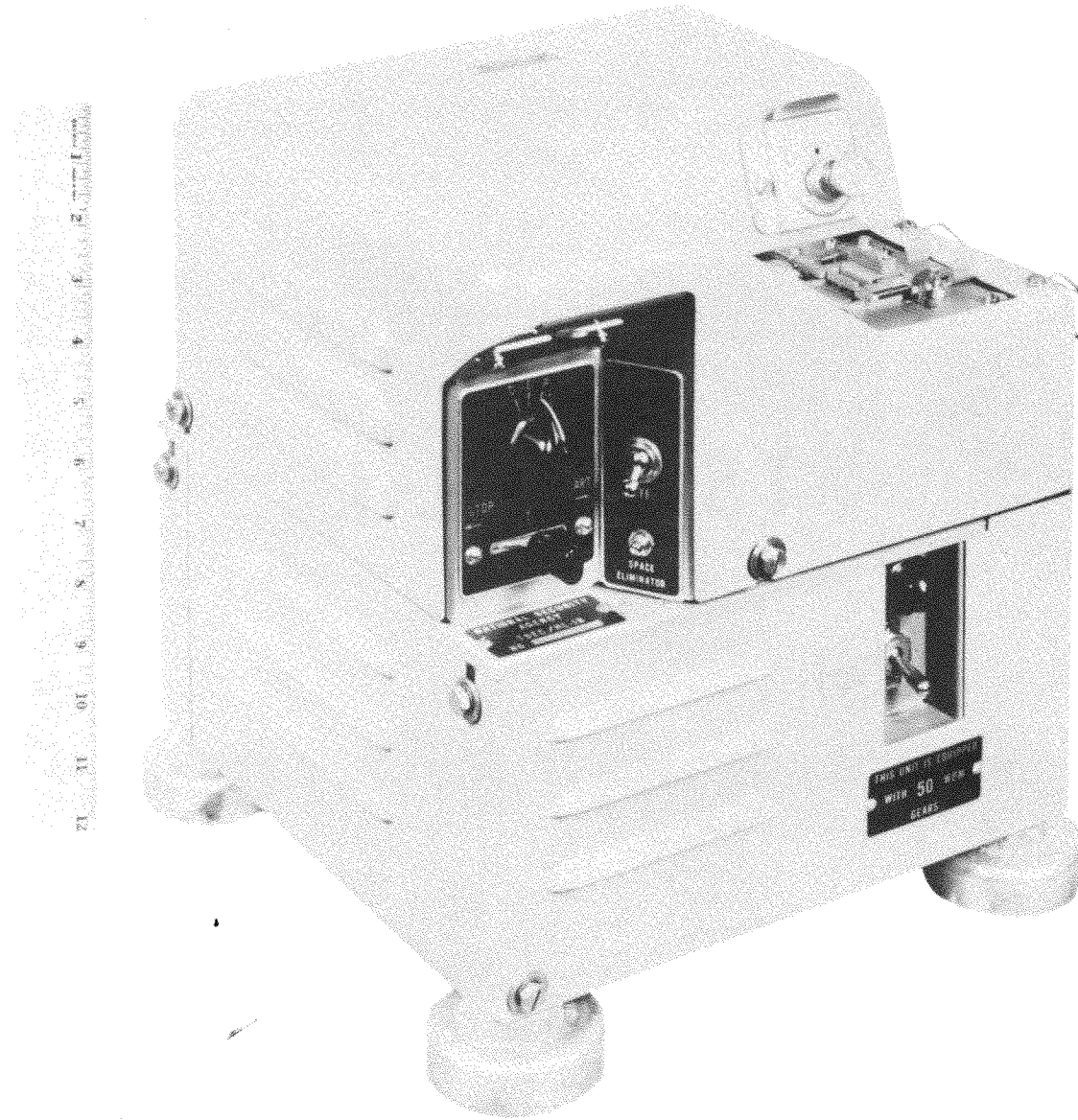
DO NOT REMOVE FROM BINDER

DECLASSIFIED per SEC 3.4 E.O. 12958  
by Director, NSA/Chief, CSS  
*[Signature]* date *27 Oct 98*

IT

ORIGINAL  
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**TSEC/HL-1**



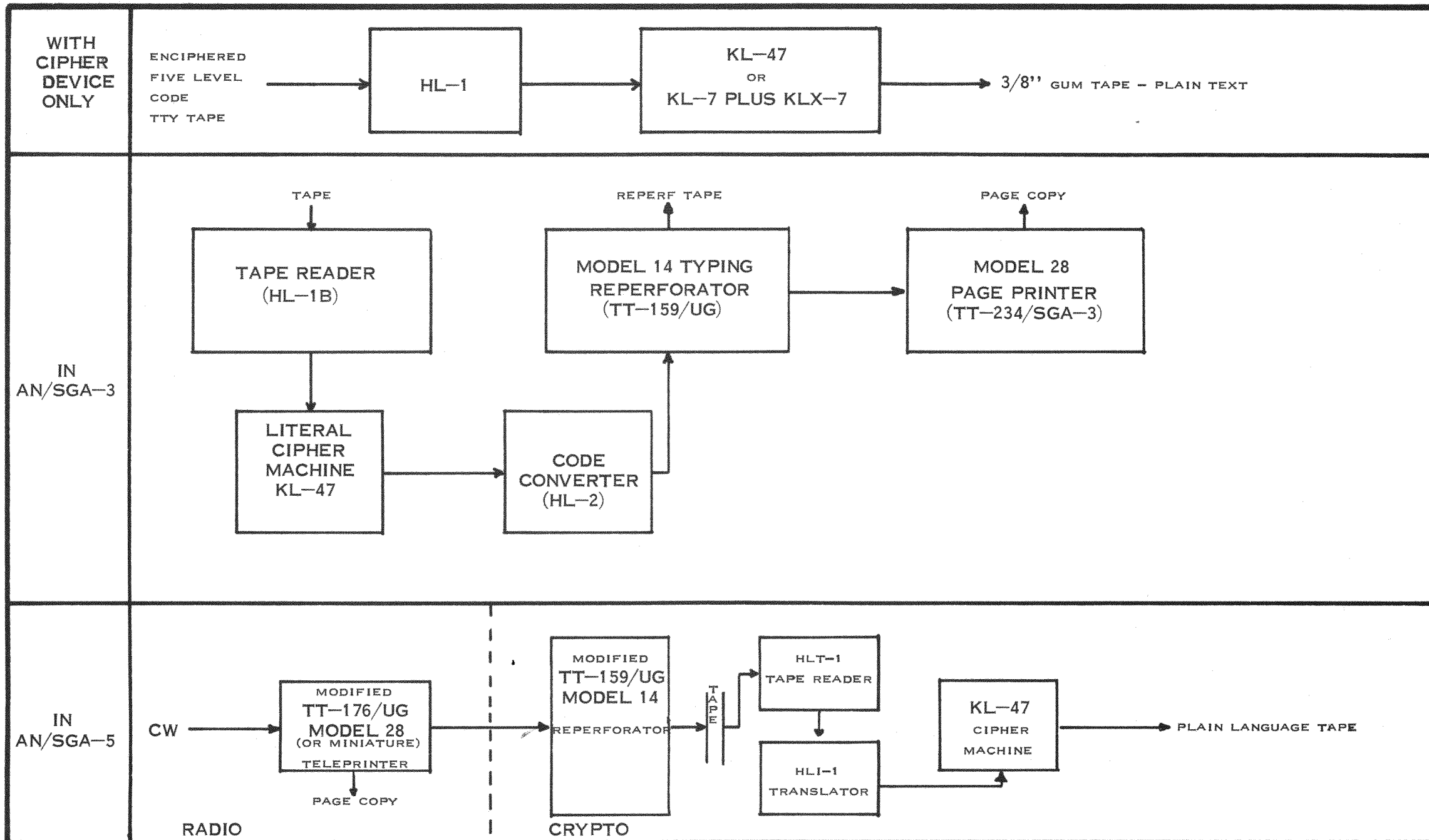
PRODUCTION MODEL

DESCRIPTION	<p>AN ELECTRO-MECHANICAL TAPE READER DESIGNED TO PROVIDE SEMI-AUTOMATIC DECRYPTION (AND ENCRYPTION WHEN USED IN CONJUNCTION WITH THE HL-2) OF TELETYPEWRITER TRAFFIC. IT CONVERTS THE 5 LEVEL CODE ON A PUNCHED TELETYPEWRITER TAPE INTO A FORM SUITABLE FOR USE BY THE CIPHER UNIT OF THE ASSOCIATED CRYPTO EQUIPMENT (EITHER A KL-47 OR A KL-7 PLUS A KLX-7) THEREBY ELIMINATING THE NEED FOR RETYPING THE INFORMATION ON THE KEYBOARD OF THE CRYPTO EQUIPMENT. IT IS EQUIPPED WITH A UNIVERSAL TAPE GUIDE. OPERATING SPEED IS 37 BAUD (50 WPM).</p> <p>THE HL-1B IS A BASIC HL-1 WHICH HAS BEEN MODIFIED BY THE CE-27257 KIT TO PERMIT IT TO WORK WITH THE HL-2 CODE CONVERTER IN THE AN/SGA-3 CONFIGURATION. OPERATES AT A SPEED OF 48 BAUD (65 WPM).</p> <p>EITHER THE HL-1 OR HL-1B CAN BE MODIFIED TO PRODUCE ONE EACH HLI-1 AND HLT-1 FOR USE IN THE AN/SGA-5 CONFIGURATION.</p>														
STATUS	APPROVED FOR SERVICE USE.							REPAIR PARTS SUPPORT - ESO							
TRAINING	A 5 WEEK COURSE IS CONDUCTED AT PORTSMOUTH AND MARE ISLAND WHICH INCLUDES KL-47, HL-1, HL-2, AND AN/SGA-3.														
CRYPTOSYSTEM	USED ONLY WITH THE KL-47 OR KL-7 (ADONIS/POLLUX)														
CLASSIFICATION	<p>EQUIPMENT: UNCLASSIFIED</p> <p>KEYING MATERIAL: NOT APPLICABLE</p> <p>TRAFFIC: SEE KL-47 AND KL-7 SECTIONS</p>														
PUBLICATIONS	<p>MAINTENANCE: HL-1: AFSAG 1207B (UNCLASSIFIED) HL-1B: KAM-87 (UNCLASSIFIED)</p> <p>OPERATING: KAO-40 (CONFIDENTIAL-CRYPTO)</p>														
PROCUREMENT (COST IN THOUSANDS)	UNIT COST	PAST		FY 1963		FY 1964		FY 1965		FY 1966		FUTURE		TOTAL	
	\$1,224 AVERAGE	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
PHYSICAL CHARACTERISTICS	HEIGHT	WIDTH		DEPTH		WEIGHT		VOLTAGE		POWER		REMARKS			
	11 1/2 IN.	10 3/8 IN.		10 1/2 IN.		29 1/2 LBS.		115 (50-60 CPS)		300 WATTS.					
DISTRIBUTION	SEE AN/SGA-3 AND AN/SGA-5 SECTIONS CSPM-1C, 1-35 ALSO REFERS														
	NOTE: <u>ONLY</u> THE HL-1B IS CAPABLE OF OPERATING IN CONJUNCTION WITH THE HL-2 IN THE AN/SGA-3 CONFIGURATION.														

TSEC/HL-1 AND TSEC/HL-1B SYSTEM BLOCK DIAGRAMS

UNCLASSIFIED

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CORRECTED TO 6/4/62

ORIGINAL