SECTION 6 - SECURITY EQUIPMENT

6.1 TSEC/KW-7 GENERAL DESCRIPTION

The TSEC/KW-7 is an on-line, half duplex, teletypewriter security equipment for point-to-point or netted single channel HF, VHF, UHF, and wire circuits.

6.2 REFERENCE DATA

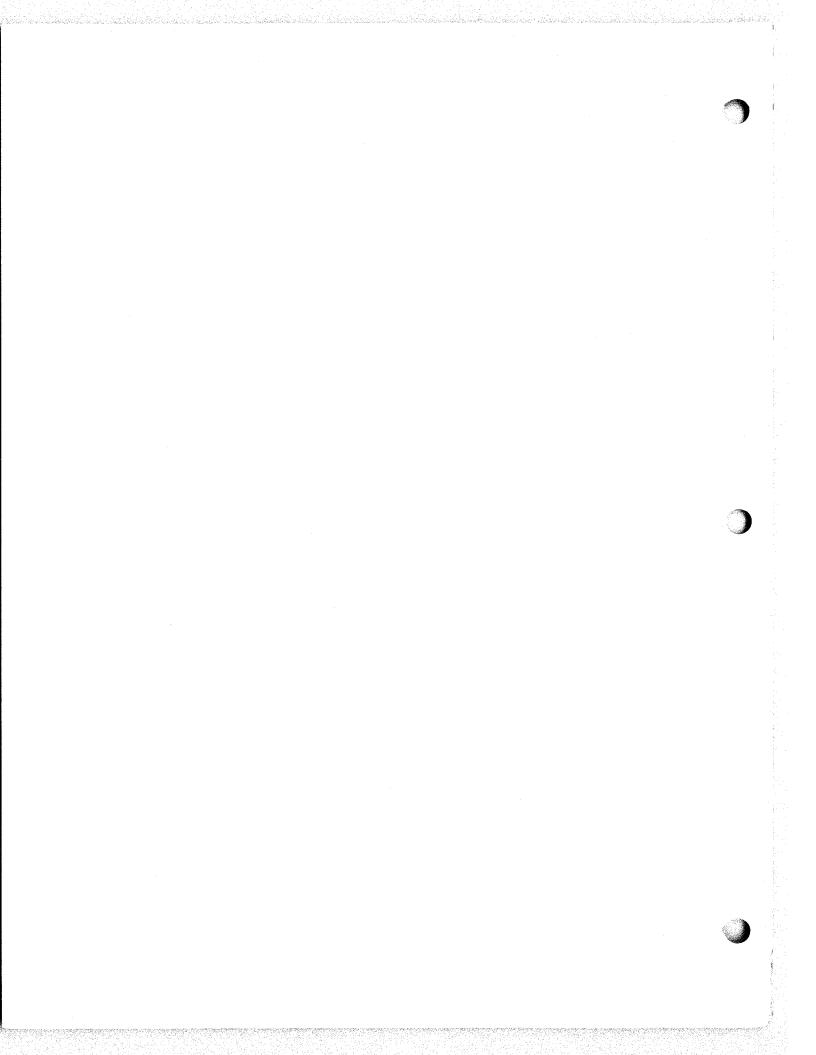
- a. Table of Technical Publications Table 6-1.
- b. Primary Power Requirements Table 6-2
- c. Heat Dissipation Table 6-3
- d. Unit Weight Table 6-3

6.3 INSTALLATION REQUIREMENTS

- a. Arrangements The TSEC/KW-7 may be installed in a standard 19 inch rack or on a shelf type foundation or similar flat surface of adequate strength. See Figure 6-1 for typical foundation details. Mounting brackets are supplied with TSEC/KW-7 for installing in a standard 19 inch rack. The KWL-4/TSEC loop adapter should be installed as close as possible to TSEC/KW-7 because the interconnecting cables W-21 W-22 are furnished. These cables are 8 foot long and are not to be cut to a shorter length. The KWX-8/TSEC remote unit, if used, should be installed adjacent to the associated teletype position.
 - b. Outline and Mounting Dimensions on Figure 6-2.
- c. Grounding Specifications All bonding and grounding to be in accordance with Table 6-1, item No. 1.

6.4 CABLE DIAGRAM AND CONNECTION DETAILS

- a. Elementary Connections Figure 6-3
- b. Electronics Installation and Maintenance Standards To be in accordance with Table 6-1 Item No. 6.
- c. Security Requirements To be in accordance with Table 6-1 Item No. 5.
- 6.5 FIELD CHANGE REQUIREMENTS None.



ITEM NO.	NAVSHIPS NO. DRAWING NO. MIL. STD. NO. Mil. Std. 1310A (NAVY)	TITLE Shipboard Bonding and Grounding Methods for Electromagnetic Compatibility			
1					
2	*RE-F-2692637	Outline and Mounting Data			
3	*RE-F-2692641	External Connections			
4	RE-F-2692660	Outline and Mounting Data			
5	NAVSHIPS INST. 05510.33B	Installation Criteria for Shipboard Secure Electrical Information Processing Systems			
6	095 7- 000-0000	Electronics Installation and Maintenance Books			
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These plans are not essential for installation but if available use as reference.

TABLE 6-2/6-3

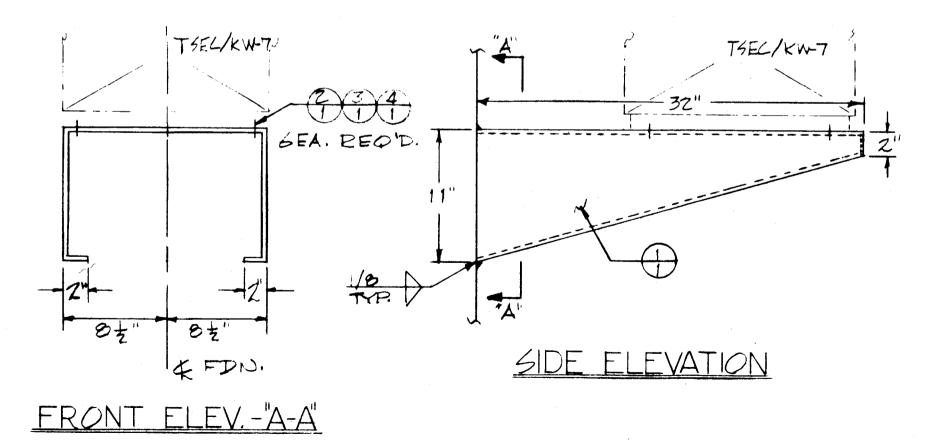
EQUI PM ENT	EQUIPMENT VOLTAGE		POWER	R EM ARKS
TSEC/KW-7	115/230 VAC, 50, 60, or 400 HZ, or 24VDC, Single Phase		300 Watts Starting 75 Watts Running	

TABLE OF PRIMARY POWER REQUIREMENTS TABLE 6-2

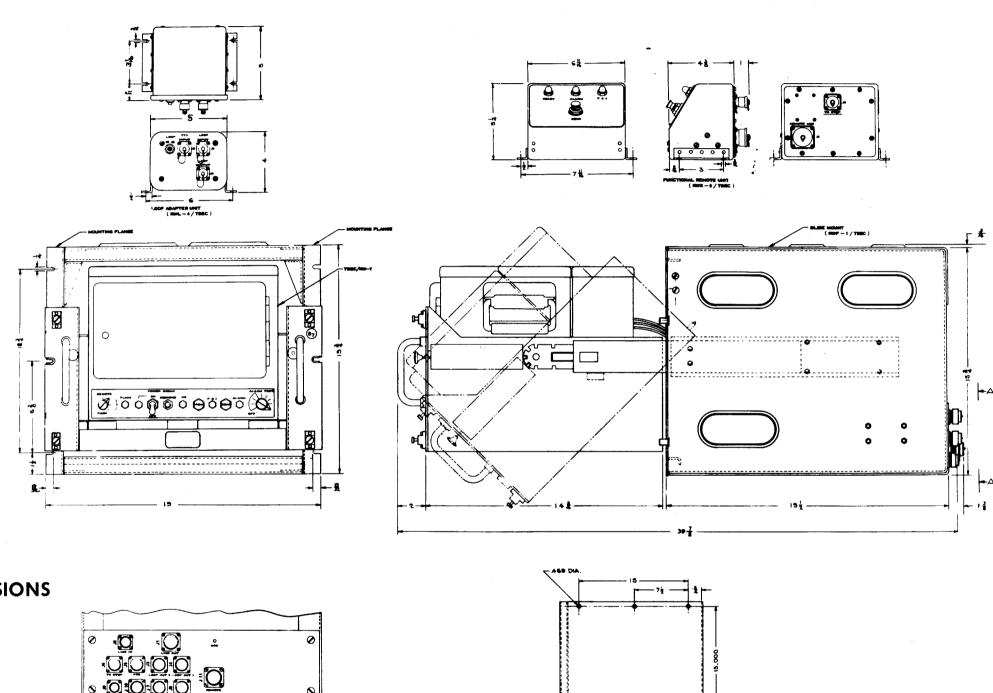
חוחו -			
967- 306	EQUI PMENT	HEAT DISSIPATION	UNIT WEIGHT
NAVSHIPS 0967- 306- 1010	TSEC/KW-7	75 Watts	75 LBS.
NAN	KWF-1/TSEC		8 LBS.
	KWL-4/TSEC		3 LBS.
/6-3	KWX-8/TSEC		3 LBS.

TABLE OF MISCELLANEOUS DATA TABLE 6-3

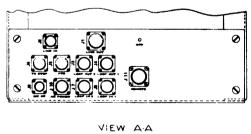
PIECE No.	NAME	NO. REQ'D	MATERIAL	MTL-SPEC.	- REMARKS	SHOP ROUTING
				FED.	STOCK NO	
1_	7.65# PLT.		M.5.	9515	237-5333	
2	3/8"HEX. HO. BOLT	6	STEEL	5306	270-9424	
3_	3/8"HXHC NUT	6	1	5310	637-205A	
4	3/8' LK. WASH.	6		5310	011-0730	
···						
				<u> </u>		
	1/4" P.T.		ALUM.	9535	542-2643	
	i	j , ,		1		

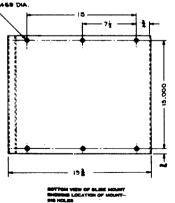


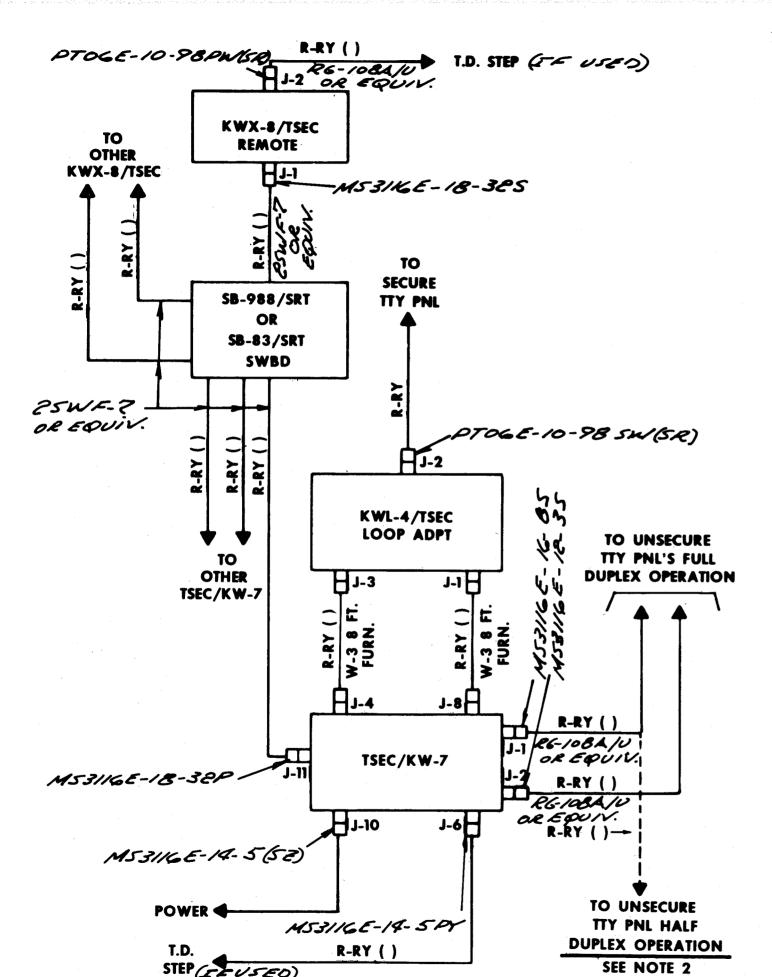
TSEC/KW-7 TYPICAL FOUNDATION DETAILS FIGURE 6-1



TSEC/KW-7 **OUTLINE AND MOUNTING DIMENSIONS** FIGURE 6-2



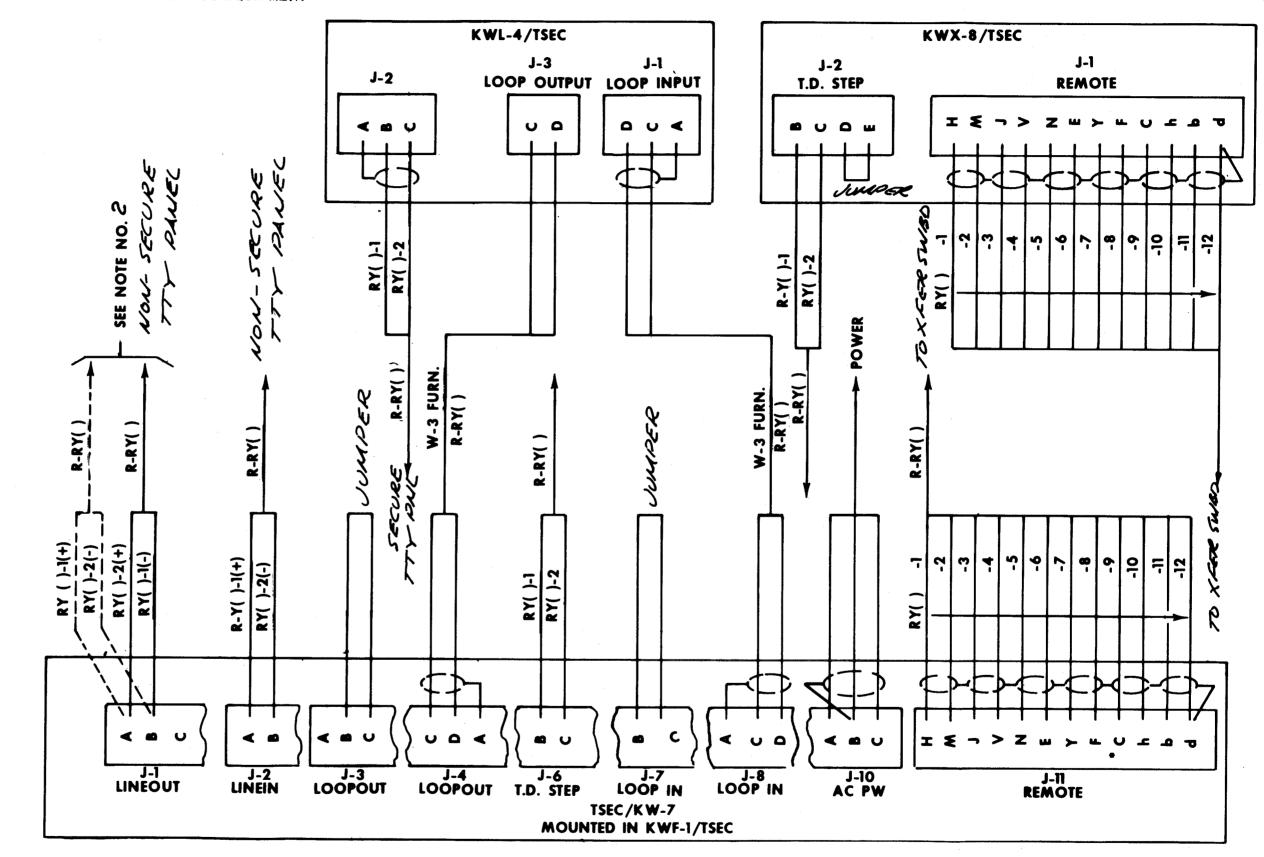




NOTES:

- 1. All plugs furnished with equipment.
- 2. For two wire neutral operation proceed as follows:
 - Cable 14-8 and J2 of KWF-1/TSEC are not used.
 - Strap terminals E2 and E4 on the TSEC/KW-7.
 - c. Transmitter/Receiver line current is then applied to terminals El and E5 on the TSEC/KW-7 by connecting pin A of Jl on KWF-1/TSEC to El on the TSEC/KW-7 and pin B of Jl on KWF-1/TSEC to E5 on the TSEC/KW-7.
 - d. Positive line battery must be connected to El on the TSEC/KW-7.
- 3. For four wire neutral operation receiver line is applied to terminals inals E4 and E5 on the TSEC/KW-7. Terminal E5 must be connected to negative line battery.
- 4. *C = Small c in J-ll and J-l.
- 5. Jumper Terminal V and W in J-11 and J-1.
- 6. Jumper Terminal D and Z in J-11 and J-1.
- Ground all shields.

TSEC/KW-7 CABLE DIAGRAM FIGURE 6-3 (CONTINUED)



TSEC/KW-7 CABLE DIAGRAM FIGURE 6-3