

RADIO FREQUENCY INTERFERENCE (RFI) SUPPRESSION
FOR 28 TELETYPEWRITER EQUIPMENT

GENERAL DESCRIPTION

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1. GENERAL

1.01 This section, together with other associated sections, is intended for use as a supplement to standard literature covering teletypewriter equipment sets which have radio frequency interference (rfi) suppression features installed. It presents the general principle and purpose of radio frequency interference suppression as applied to 28 teletypewriter equipment. Only a broad view is taken in this section, since rfi has been applied to various equipment sets. For more detailed information regarding particular sets and component units, refer to associated sections in this series.

1.02 Rfi suppression as applied to teletypewriter equipment is accomplished by means of shielding and wave shaping a low level electrical telegraph signal throughout the equipment. The installations vary with each set, but produce the same results of insuring signal line privacy.

2. SIGNALING

2.01 The code is transmitted by means of a ± 6 volt polar signal through a network of shielded cables to the shielded container of the electrical service assembly. A +6 volt signal is mark; a -6 volt signal is space.

3. CABLING

3.01 The shielded cabling varies with each set according to need. Each component unit of a set is equipped with sufficient shielding, in the form of metallic enclosures and shielded cables, to suppress signal radiation. All signal generators and magnet assemblies in the signal circuitry are shielded by means of metal containers attached to their respective cables. Interconnecting cables join the component units to the electrical service assembly by means of metal connectors which screw together for a tight shielded connection.

4. ELECTRICAL SERVICE ASSEMBLY

4.01 The electrical service assembly is an electrically shielded container in which the shielded cables terminate. It also serves as a housing for certain components such as plug-in selector magnet driver circuit cards, clutch magnet driver circuit cards, keyer circuit cards, power supply circuit cards, and relays.

4.02 Electrical service assemblies which house low level keyers (LLK) and selector magnet drivers (SMD) have double shielded containers and double shielded cables with appropriate connectors for LLK and SMD connections to external equipment.

SECTION 573-600-100TC

5. CROSS REFERENCE CHARTS

5.01 These charts provide a cross reference of Navy coded sets and Teletype coded sets, list the components that make up a set, the electrical service assembly for each set, and the wiring diagram package (WDP) applicable to each set.

5.02 The abbreviations used in the charts are defined as:

ASR - Automatic Send-Receive
KSR - Keyboard Send-Receive

RO - Receive Only
ROTR - Receive-Only Typing Reperforator
SRTR - Send-Receive Typing Reperforator
ESA - Electrical Service Assembly
LLK - Low-Level Keyer
SMD - Selector Magnet Driver
CMD - Clutch Magnet Driver
PS - Power Supply
WDP - Wiring Diagram Package

5.03 A chart providing detailed information for the various electrical service assemblies can be found in Section 573-613-100TC covering the electrical service assemblies.

NOTE: CHART A on Pages 3/4 is missing...

CHART C

28 MULTIPLE PAGE PRINTER SETS	WDP	COMPONENTS									SETS OF GEARS								
		LP149RN/AJG	LP150RN/AJG	LBAC280BR	LBAC281BR	LK71/ARN	ESA321228*	ESA332726*	ESA332727*	LMU3	LMU21	LMU28	LMU38	LMU41	LMU52	Baud			
																74.2	74.2	75	75
		Part No.																	
159700	161295	163505	312705																
AN/UGR-10 28RFL7400B/004/AMB/BR	0100	28RFC7400B/004/AMB/BR 4	1	1	1	4										4			
AN/UGR-10X 28RFL7400B/004/AZB/BR	0100	28RFC7400B/004/AZB/BR 4	1	1	1									4					4
AN/UGC-61 28RFL7300A/004/AAA/BR	0099	28RFC7300A/004/AAA/BR 3	1	1	1	1	2												3
AN/UGC-61X 28RFL7300A/004/AJA/BR	0099	28RFC7300A/004/AJA/BR 3	1	1	1					1	2					3			
AN/UGC-61Y 28RFL7300A/004/ABA/BR	0099	28RFC7300A/004/AJA/BR 3	1	1	1					2		1							

* For components of ESA, see chart in Section 573-613-100TC.

CHART D

28 TYPING REPERFORATOR SRTR AND RO SETS	WDP	COMPONENTS														SETS OF GEARS							
		LPC202BR	LPC211BR	LPR85BRP	ESA323813*	ESA321230*	LLK303142	SMD323810	CMD321991	PSS21290	LPR72BRP	LPR88AWA	LTRK11ARN	LSRC200BR	LRB8**	LRB62**	TP174459 Sliding Base	ESA321231*	LMU3	LMU56	Baud		
																					74.2	74.2	
		Part No.																					
																				161295			
TT-571/UG RFP6000A/005/AAX/BR	0061	28RFC6000A/005/AAX/BR X																					
TT253()/UG 28RFP6200A/005/AAX/BR	0031	28RFC6200A/005/AAX/BR X X X X X X X X X X										X	X						X				X
TT605/UG 28RFP6000B/004/XXX/BR	0111	28RFC6000B/004/XXX/BR X										X				X	X	X		X			

* For components of ESA, see chart in Section 573-613-100TC.

** Gear Shift Assembly for 60, 75, 100 WPM.

CHART E

TRANSMITTER DISTRIBUTOR SETS	WDP	COMPONENTS								SETS OF GEARS			
		LXDC201BR	ESA326792*	CMD321991 Card	PS321290 Card	LLK303142	LXD37	LXD38	LXDB20	LMU19	ESA326792*	Baud	
												75	74.2
												Part No.	
173595	156659												
TT570/UG 28RFT5000B/XXX/AAS/BR	0058	RFT5000B/XXX/AAS/BR	X	X	X	X	X	X	X		X		
TT603/UG 28RFT5000A/XXX/AAB/BR	0058	RFT5000A/XXX/AAB/BR	X					X	X	X	X		X

* For components of ESA, see chart in Section 573-613-100TC

CHART F

28/32 COMPACT PRINTER SETS	WDP	COMPONENTS											SETS OF GEARS									
		LPC402BR	LPC403BR	LP139RN/AJG	LP156RN/AJG	LLB5 **	LLK4CRN **	LMU37	LMU51	ESA321231*	ESA323120*	ESA323121*	SMD323810	LLK323130	CMD821991	PS321290	Baud					
																	**	**	**	**	**	**
																	Part No.					
145365	145366	198576	198580	304668	304669																	
AN/UGR-9 28RFH8000B/002/AAA/BR	0029	X	X	X		X		X		X		X				X	X					
AN/UGR-9X 28RFH8000B/002/AAB/BR	0029	X	X	X			X	X		X		X								X	X	
AN/UGC-20A 28RFH8001A/002/AAC/BR	0123		X	X		X	X		X	X	X	X	X	X	2	X	X	X	X			

* For components of ESA, see chart in Section 573-613-100TC.

** Gear Shift Assembly for 45.5, 50, and 75 WPM.