

(NAVY) NAVSHIPS 0967-173-6050  
(AIR FORCE) T.O. 31W4-4-5-1073

---

**TECHNICAL MANUAL**

**WIRING DIAGRAMS  
28 AUTOMATIC SEND-RECEIVE (ASR)**

**TELETYPEWRITER SETS**

**TELETYPE CORPORATION  
BULLETIN 312B/RF  
(VOLUME 5)**

**(COMMERCIAL MANUAL)**

Each transmittal of this document outside of the Department of Defense must have approval of the Technical Order Distribution Control Activity. Refer to TO 00-5-2.

**BASIC AND ALL CHANGES HAVE BEEN MERGED TO MAKE THIS A COMPLETE PUBLICATION.**

**PUBLISHED UNDER AUTHORITY OF THE SECRETARY OF THE AIR  
FORCE AND THE SECRETARY OF THE NAVAL SHIPS SYSTEMS COM-  
MANE.**

---

**30 APRIL 1970  
CHANGE 1 - 15 JANUARY 1978  
NAVSHIPS 0967-LP-173-6051**

Reproduction for non-military use of the information or illustrations contained in this publication is not permitted. The policy for military use reproduction is established for the Army in AR 380-5, for the Navy and Marine Corps in OPNAVINST 5510.1B, and for the Air Force in Air Force Regulation 205-1.

LIST OF EFFECTIVE PAGES

Insert latest changed pages; dispose of superseded pages in accordance with applicable regulations.

NOTE: On a changed page, the portion of the text affected by the latest change is indicated by a vertical line, or other change symbol, in the outer margin of the page. Changes to illustrations are indicated by miniature pointing hands. Changes to wiring diagrams are indicated by shaded areas.

Total number of pages in this manual is 230 consisting of the following:

Page No.	# Change No.	Page No.	# Change No.
Title	1	1-37	0
A	1	1-38 Blank	0
B - C	0	1-39	0
i	0	1-40 Blank	0
ii Blank	0	1-41	0
iii	0	1-42 Blank	0
iv Blank	0	1-43	0
v	0	1-44 Blank	0
vi Blank	0	1-45	0
1-1 - 1-3	0	1-46 Blank	0
1-4 Blank	0	1-47	0
1-5	0	1-48 Blank	0
1-6 Blank	0	1-49	0
1-7	0	1-50 Blank	0
1-8 Blank	0	1-51	0
1-9	0	1-52 Blank	0
1-10 Blank	0	1-53	0
1-11	0	1-54 Blank	0
1-12 Blank	0	1-55	0
1-13	0	1-56 Blank	0
1-14 Blank	0	1-57	0
1-15	C	1-58 Blank	0
1-16 Blank	C	1-59	C
1-17	C	1-60 Blank	0
1-18 Blank	0	1-61	C
1-19	C	1-62 Blank	0
1-20 Blank	C	1-63	0
1-21	0	1-64 Blank	0
1-22 Blank	0	1-65	C
1-23	C	1-66 Blank	0
1-24 Blank	C	1-67	C
1-25	C	1-68 Blank	0
1-26 Blank	0	1-69	C
1-27	0	1-70 Blank	0
1-28 Blank	C	1-71	0
1-29	0	1-72 Blank	0
1-30 Blank	C	1-73	0
1-31	0	1-74 Blank	0
1-32 Blank	0	1-75	0
1-33	0	1-76 Blank	0
1-34 Blank	0	1-77	0
1-35	0	1-78 Blank	0
1-36 Blank	0		

# Zero in this column indicates an original page.

LIST OF EFFECTIVE PAGES

Page No.	# Change No.	Page No.	# Change No.
1-79	0	1-131	0
1-80 Blank	0	1-132 Blank	0
1-81	0	1-133	0
1-82 Blank	0	1-134 Blank	0
1-83	0	1-135	0
1-84 Blank	0	1-136 Blank	0
1-85	0	1-137	0
1-86 Blank	0	1-138 Blank	0
1-87	0	1-139	0
1-88 Blank	0	1-140 Blank	0
1-89	0	1-141	0
1-90 Blank	0	1-142 Blank	0
1-91	0	1-143	0
1-92 Blank	0	1-144 Blank	0
1-93	0	1-145	0
1-94 Blank	0	1-146 Blank	0
1-95	0	1-147	0
1-96 Blank	0	1-148 Blank	0
1-97	0	1-149	0
1-98 Blank	0	1-150 Blank	0
1-99	0	1-151	0
1-100 Blank	0	1-152 Blank	0
1-101	0	1-153	0
1-102 Blank	0	1-154 Blank	0
1-103	0	1-155	0
1-104 Blank	0	1-156 Blank	0
1-105	0	1-157	0
1-106 Blank	0	1-158 Blank	0
1-107	0	1-159	0
1-108 Blank	0	1-160 Blank	0
1-109	0	1-161	0
1-110 Blank	0	1-162 Blank	0
1-111	0	1-163	0
1-112 Blank	0	1-164 Blank	0
1-113	0	1-165	0
1-114 Blank	0	1-166 Blank	0
1-115	0	1-167	0
1-116 Blank	0	1-168 Blank	0
1-117	0	1-169	0
1-118 Blank	0	1-170 Blank	0
1-119	0	1-171	0
1-120 Blank	0	1-172 Blank	0
1-121	0	1-173	0
1-122 Blank	0	1-174 Blank	0
1-123	0	1-175	0
1-124 Blank	0	1-176 Blank	0
1-125	0	1-177	0
1-126 Blank	0	1-178 Blank	0
1-127	0	1-179	0
1-128 Blank	0	1-180 Blank	0
1-129	0	1-181	0
1-130 Blank	0	1-182 Blank	0

# Zero in this column indicates an original page

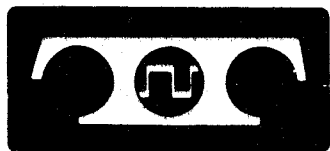
**LIST OF EFFECTIVE PAGES**

Page No.	# Change No.	Page No.	# Change No.
1-183 . . . . .	0	1-202 Blank. . . . .	0
1-184 Blank. . . . .	0	1-203 . . . . .	0
1-185 . . . . .	0	1-204 Blank. . . . .	0
1-186 Blank. . . . .	0	1-205 . . . . .	0
1-187 . . . . .	0	1-206 Blank. . . . .	0
1-188 Blank. . . . .	0	1-207 . . . . .	0
1-189 . . . . .	0	1-208 Blank. . . . .	0
1-190 Blank. . . . .	0	1-209 . . . . .	0
1-191 . . . . .	0	1-210 Blank. . . . .	0
1-192 Blank. . . . .	0	1-211 . . . . .	0
1-193 . . . . .	0	1-212 Blank. . . . .	0
1-194 Blank. . . . .	0	1-213 . . . . .	0
1-195 . . . . .	0	1-214 Blank. . . . .	0
1-196 Blank. . . . .	0	1-215 . . . . .	0
1-197 . . . . .	0	1-216 Blank. . . . .	0
1-198 Blank. . . . .	0	1-217 . . . . .	0
1-199 . . . . .	0	1-218 Blank. . . . .	0
1-200 Blank. . . . .	0	1-219 . . . . .	0
1-201 . . . . .	0	1-220 Blank. . . . .	0

# Zero in this column indicates an original page

**BULLETIN 312B/RF  
NAVSHIPS 0967-173-6050  
T. O. 31W4-4-5-1073  
VOLUME 5 (Of 5 Volumes)**

**TECHNICAL MANUAL  
28 AUTOMATIC SEND-RECEIVE (ASR)  
TELETYPEWRITER SETS**



**TELETYPE®  
CORPORATION  
5555 TOUHY AVENUE, SKOKIE, ILLINOIS**

1950

1950



## INTRODUCTION

Volumes 4 and 5 have been added to Bulletin 312B to include Radio Frequency Interference Suppression features for the 28 Automatic Send-Receive (ASR) Teletypewriter Sets. These volumes are identified by an RF suffix and must be used with Volumes 1, 2, and 3 which contain literature for the standard features. Volumes 1, 2, and 3 must be used with all sets whether RFI modified or not.

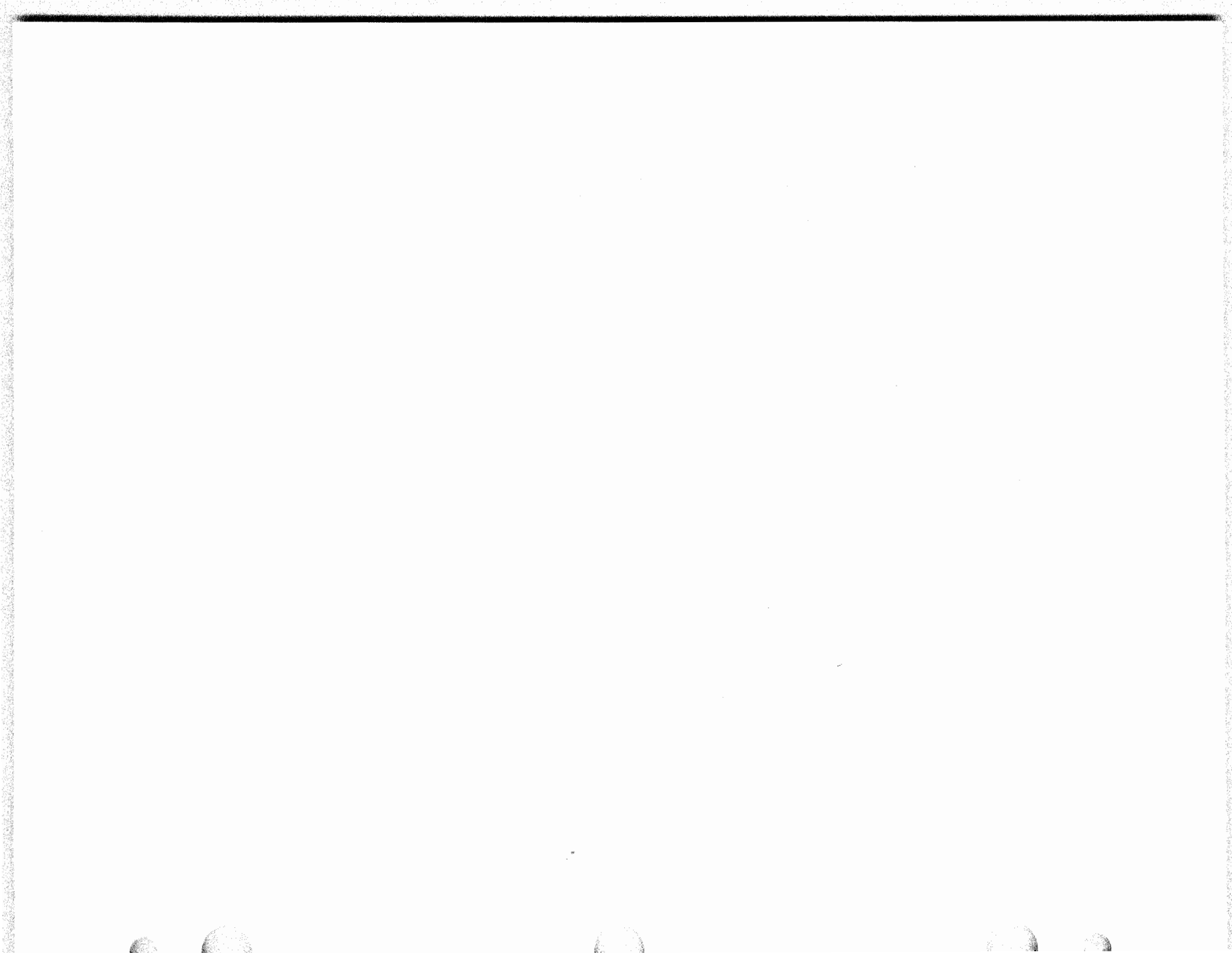
Volume 4, identified as 312B/RF (NAVSHIPS 0967-173-6040), provides descriptive information and parts ordering information peculiar to sets with RFI features installed.

Volume 5, identified as 312B/RF (NAVSHIPS 0967-173-6050), provides wiring diagrams for sets and their components that are equipped with RFI features.

Each volume is made up of a group of appropriate independent sections. The sections are complete within themselves; they are separately identified by title and section number and the pages of each section are numbered consecutively, independent of other sections.

The identifying number of a section, a 9-digit number, appears at the top of each page of the section, in the left corner of left-hand pages and the right corner of right-hand pages.

To locate specific information, refer to the table of contents. The name of the involved component, the title of the section, and the 9-digit section number may then be found. The sections are arranged in the order shown in the table of contents. Turn to page one of the section indicated where the contents of the section will be found (except where a section is small and does not require a listing of contents).



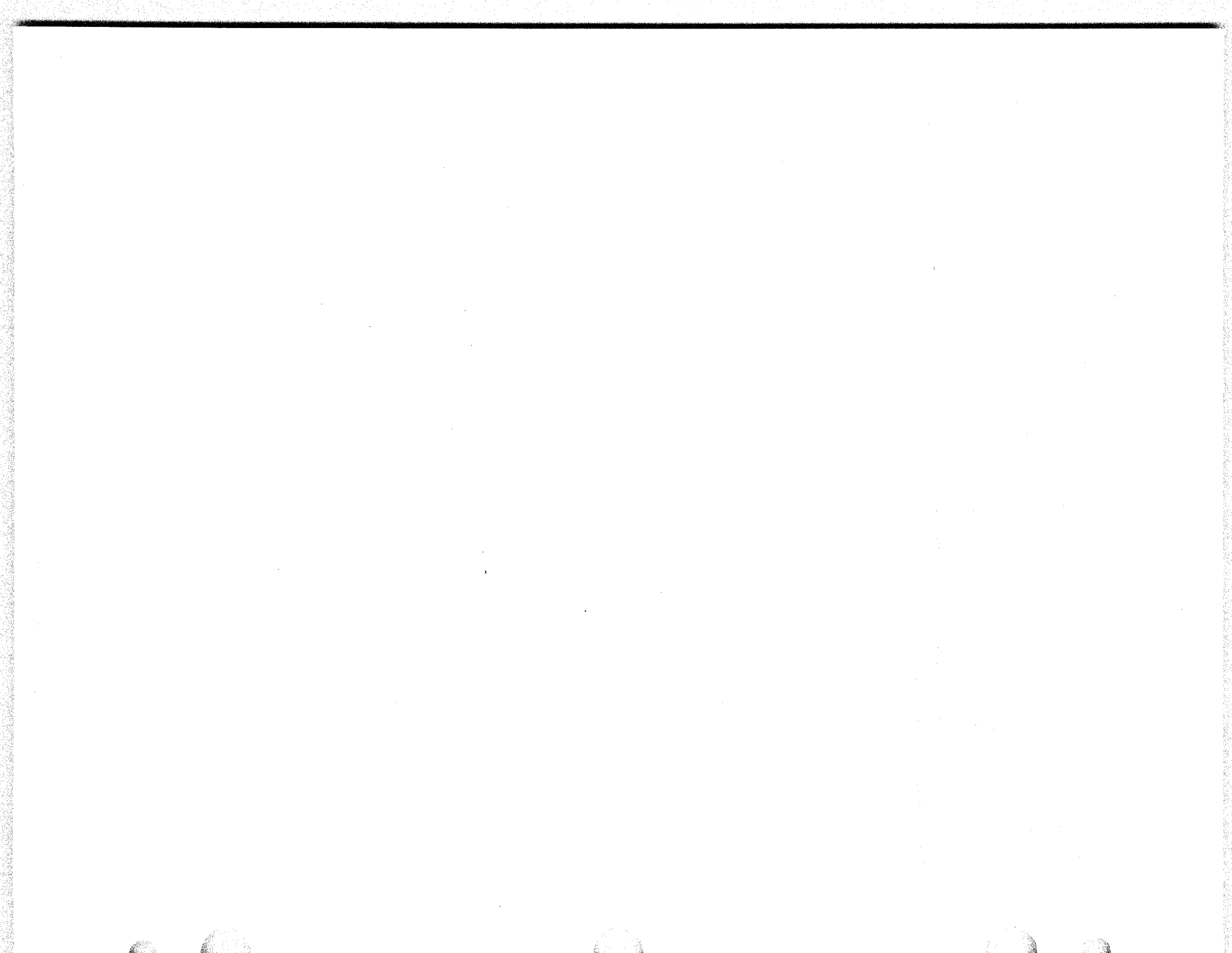
312B/RF

NAVSHIPS 0967-173-6050  
Original, October 1969

VOLUME 5

TABLE OF CONTENTS

<u>Title</u>	<u>Contents</u>	<u>Section</u>	<u>Issue</u>
28 Automatic Send-Receive (ASR) Teletypewriter Sets (With RFI Suppression)	Wiring Diagrams	573-600-400TC	1



28 AUTOMATIC SEND-RECEIVE (ASR) TELETYPEWRITER SETS

(WITH RFI SUPPRESSION)

WIRING DIAGRAMS

1. GENERAL

1.01 This section contains wiring diagrams for the Automatic Send-Receive Sets listed in the charts of Section 573-600-100TC.

1.02 The wiring diagram index lists the equipment involved, the number of the wiring diagram followed by the type (A for actual, S for schematic), the number of sheets, and the number of the wiring diagram packages in which the diagram may also be found. The wiring diagrams are listed in numerical order.

2. WIRING DIAGRAM INDEX

EQUIPMENT	WIRING DIAGRAM NO. AND TYPE	SHEETS	WIRING DIAGRAM PACKAGE NO.					
			0047	0048	0049	0088	0163	0164
Motor Unit	2900WD S	2	X	X	X	X	X	X
Power Factor Corrector	4287WD A	1	X	X			X	
Power Factor Corrector	4288WD A	1	X	X			X	
305143 Power Supply	7241WD S	1	X	X	X	X	X	X
323811 ESA	8141WD S	1			X			
323810 SMD	8143WD S	1	X	X	X	X	X	X
319204 Selector Assembly	8299WD S	1	X	X	X	X	X	X
Typing Unit (LP134 and LP138)	8301WD A	1			X	X		X
Reperforator Base	8307WD A	1	X	X	X	X	X	X
Cabinet (LAAC252)	8308WD A	3	X	X		X		
Transmitter Distributor	8309WD A	1	X	X	X	X	X	X
Transmitter Distributor Base	8310WD A	1	X	X	X	X		
Keyboard Base	8311WD A	1	X				X	
Electrical Service Unit (LESU123)	8312WD A	1	X	X	X	X	X	X
28RFX4000 Set	8313WD S	3	X	X	X	X		
323815 ESA	8315WD A	5	X	X		X	X	
323812 ESA	8316WD A	4			X			X
Keyboard Base	8319WD A	1		X	X	X		X
Cabinet (LAAC251)	8321WD A	2			X			
323811 ESA	8322WD A	5			X			X
Typing Unit	8326WD A	1	X	X			X	
323812 ESA	8405WD S	1	X	X	X	X	X	X
323815 ESA	8413WD S	1	X	X		X	X	
28RFC4002A Set	8545WD A	1				X		
28RFC4800A Set	8546WD A	1			X			
328000 Electronic Numbering Module	8579WD A	2					X	
328000 Electronic Numbering Module	8580WD S	2					X	X
Transmitter Distributor Base (LCXB26)	8904WD A	1					X	X
Transmitter Distributor Base (LCXB27)	8905WD A	1					X	X
Cabinet (LAAC259)	8906WD A	3					X	
Cabinet (LAAC260)	8907WD A	2						X

SECTION 573-600-400TC

WIRING DIAGRAM INDEX (continued)

EQUIPMENT	WIRING DIAGRAM NO. AND TYPE		SHEETS	WIRING DIAGRAM PACKAGE NO.					
				0047	0048	0049	0088	0163	0164
28RFC4005B, 4006B Sets	8908WD	A	1					X	
28RFC4803A and 4804A Sets	8909WD	A	1						X
28RFX4003B, 4004B and 9001B Sets	8910WD	S	5					X	
333605 Power Supply	8911WD	A	2					X	X
333605 Power Supply	8912WD	S	2					X	X
28RFX4803A, 4804B and 9001A Sets	8913WD	S	5						X
Keyer	303142	S	1	X	X	X	X	X	X
Clutch Magnet Driver	303160	S	2					X	X
Clock Amplifier	303164	S	1					X	X
Clock Latch and Filter Card	303811	S	1					X	X
Clutch Magnet Circuit Board	320045	S	1	X	X	X	X	X	X
Power Supply	321130	S	2	X	X	X	X	X	X
Message Counter Card	322022	S	7					X	X
Format Scanner Card	322023	S	5					X	X
Reader Control and Serializer Card	322024	S	6					X	X
Logic Card	322025	S	3					X	X
Line Assurance Card	322080	S	2					X	X
Four Digit Display Card	322417	S	2					X	X
SMD With Signal Combiner	323810	S	1					X	X
Power Supply Circuit Card	328068	S	1					X	X
Power Supply Circuit Card	334536	S	4					X	X