

**CONFIDENTIAL**

No. \_\_\_\_\_

**SIGNAL  
OPERATION  
INSTRUCTIONS**

**101<sup>st</sup>**

**AIRBORNE  
DIVISION**

**CONFIDENTIAL**

CONFIDENTIAL

SIGNAL OPERATION INSTRUCTIONS

101ST AIRBORNE DIV

RADIO NETS, FREQUENCIES, CALL SIGNS  
NO 1

!	!	FREQ	CALL	TYPE	!
!	EFFECTIVE	KC	SIGN	RAD SET	!
DIV REGIMENT NET - - -	!	!	E4R8	SCR-284	!
101ST AIRBORNE DIV	!0001-0930!	H-4179!	F2G5	!	!
501ST PARA - - -	!	!	U1N6	!	!
502ND PARA - - -	!0931-1500!	F-4100!	S9A3	!	!
506TH PARA - - -	!	!	Y1Y6	!	!
81ST ANTI BN - - -	!1501-2400!	E-4023!	7C25	!	!
-----					
DIV COMMAND NET - - -	!	!	71Y8	SCR-193	!
326TH ENGINEER BN - -	!0001-0930!	E-4023!	G2E7	!	!
326TH MEDICAL BN - -	!	!	N5E7	!	!
101ST MAINTENANCE CO	!0931-1500!	H-4179!	S812	!	!
101ST SIGNAL CO - - -	!	!	E7U4	!	!
101ST COUNTER INTEL -	!1501-2400!	N-3825!	57U1	!	!
NOTE: SIG CO RADIO CARS. WHEN COMBAT TEAMS ARE					
DISSOLVED, THE REGULAR DIV COMMAND NET TAKES OVER,					
THIS NET IS CLOSED AND SIG CO CARS RETURN TO DIV CP.					
-----					
DIV AA-AT WARNING NET	!	!	R2M4	!	!
*801ST ORDNANCE - -	!	!	G2E7	SCR-193	!
426TH QUARTERMASTER	!	!	M8E3	SCR-193	!
HQ CO - - - - -	!0001-0930!	0-4146!	U1N6	SCR-245	!
101ST AIRBORN - -	!	!	T9Y7	SCR-245	!
HQ MILITARY POLICE -	!0931-1500!	0-4146!	S9A3	SCR-245	!
PLATOON - - - - -	!	!	Z5M9	SCR-245	!
HQ RECONNAISSANCE -	!1501-2400!	0-4146!	Y1Y6	SCR-245	!
PLATOON - - - - -	!	!	A2Q4	SCR-245	!
**DIV ARTY HQ - - -	!	!	7C25	SCR-284	!
*DIV ARTY HQ - - -	!	!CHAN"D"	!	SCR-608	!
**101TH SIG CO - - -	!	!	6GN9	SCR-284	!
**326TH BN - - - - -	!	!	5T23	SCR-284	!

CONFIDENTIAL

SOI  
INSTRUCTIONS FOR USE OF  
CONVERTER M-209-A  
KEY

1. SET UP KEY WHEEL PINS AND DRUM BAR LUGS IN ACCORD-  
ANCE WITH PAR 9 TM-11-380 AND ITEMS 8-B AND 8-C OF THIS SOI.

ENCIPHERMENT

1. SET CONVERTER AT ANY NUMBER ENDING IN ZERO OR FIVE.  
SELECT SIX LETTERS AT RANDOM (FOR EXAMPLE, DTNCK) ALIGN  
ON KEY WHEELS FROM LEFT TO RIGHT.

2. CHOOSE ANY LETTER (FOR EXAMPLE, "P") AND ENCIPHER  
IT 12 TIMES. (THIS YIELDS, FOR EXAMPLE, IVWEM UOCXJ VY)

3. SET CONVERTER TO ANY NUMBER ENDING IN ZERO OR FIVE.

4. ALIGN, IN ORDER, FROM LEFT TO RIGHT THE FIRST 6  
USUABLE LETTERS (IN THIS CASE IVEMOC) SKIP OVER THE LETTERS  
WHICH DO NOT APPEAR ON THE APPROPRIATE WHEELS.

5. ADVANCE TAPE ABOUT 6 INCHES AND ENCIPHER MESSAGE.

6. ADVANCE TAPE ABOUT 6 INCHES AND TEAR OFF.

7. WRITE AT HEAD OF TAPE ALL NECESSARY TRANSMITTING  
DATA, FOLLOWED BY INDICATORS OF MESSAGE ( (HEADING)  
PPDTN CCKLC ----) REPEAT INDICATORS IN SAME ORDER AT END  
OF MESSAGE (----- PPDTN CCKLC (TIME SIGNED) )

8. STEPS 1-4, INCLUSIVE, FOR EACH MESSAGE, SELECTING  
A NEW GROUP OF RANDOM LETTERS EACH TIME

DECIPHERING

9. REPEAT STEP 1 (USING LETTERS 3-8 INCL. IN INDICATOR.)

10. REPEAT STEP 2 (USING FIRST LETTER OF INDICATOR.)

11. REPEAT STEP 4 (USING RESULTS OF STEP 10.)

12. ADVANCE TAPE ABOUT 6 INCHES AND DECIPHER MESSAGE.

13. ADVANCE TAPE ABOUT 6 INCHES AND TEAR OFF.

14. INSERT ADDRESSEE AT HEAD OF TAPE, TIME SIGNED AND  
SIGNATURE AT END OF TAPE.

CONFIDENTIAL

PIN SET-UP

A-	A-	-A	A-	A-	A-	-A	-A	A-	A-	A-	A-
-B	-B	-B	B-	B-	B-	B-	-B	-B	B-	-B	B-
-C	-C	C-	-C	C-	-C	-C	C-	-C	C-	-C	-C
D-	D-	-D	-D	D-	D-	D-	D-	-D	D-	D-	-D
-E	E-	-E	E-	-E	-E	E-	E-	-E	-E	E-	E-
-F	F-	F-	F-	-F	-F	F-	-F	F-	-F	F-	-F
-G	-G	-G	-G	G-	-G	G-	-G	-G	-G	G-	G-
-H	H-	H-	-H	-H	H-	H-	H-	-H	H-	-H	-H
I-	I-	-I	I-	-I	I-	I-	-I	-I	-I	I-	I-
-J	J-	-J	-J	J-	-J	J-	J-	-J	-J	J-	J-
K-	-K	K-	K-	-K	-K	-K	K-	-K	-K	K-	K-
L-	-L	-L	-L	-L	-L	-L	L-	L-	L-	L-	L-
M-	-M	-M	-M	-M	-M	M-	-M	-M	M-	-M	-M
-N	N-	N-	-N	N-	-N	N-	N-	-N	N-	-N	-N
-O	-O	O-	O-	O-	-O	O-	O-	O-	-O	-O	O-
P-	-P	P-	P-	P-	P-	P-	P-	P-	P-	P-	-P
Q-	Q-	-Q	Q-	Q-	-Q	-Q	Q-	-Q	Q-	Q-	Q-
R-	-R	R-	-R	R-		-R	R-	-R	-R	-R	
S-	S-	S-	-S	-S		-S	S-	-S	S-	-S	
T-	-T	T-	T-			-T	T-	T-	-T		
-U	-U	U-	-U			U-	-U	U-	-U		
V-	-V	V-				V-	V-	V-			
W-	X-	X-				-W	-X	-X			
-X	-Y					X-	-Y				
Y-	-Z					-Y	-Z				
Z-						-Z					

NO 1

NO 2

CONFIDENTIAL

PIN SET-UP

A- -A A- A- -A A-  
B- B- B- -B -B B-  
C- C- -C -C C- C-  
D- D- -D -D D- D-  
E- E- -E -E E- -E  
-F F- F- F- F- -F  
-G -G G- -G -G G-  
-H H- -H H- H- H-  
I- I- -I -I -I -I  
-J J- J- J- -J -J  
K- -K -K -K K- -K  
-L L- L- L- -L -L  
M- -M -M M- M- -M  
N- -N -N N- N- N-  
-O O- O- O- O- O-  
P- P- P- -P P- P-  
-Q -Q Q- -Q -Q -Q  
-R -R R- -R R-  
-S S- S- -S -S  
T- T- T- -T  
-U -U -U U-  
-V V- -V  
-W -X -X  
X- -Y  
-Y Z-  
Z-

NO 3

A- -A A- -A A- -A  
B- -B -B B- B- -B  
C- C- -C -C C- -C  
D- -D -D -D -D -D  
-E E- -E -E E- -E  
-F F- F- F- F- -F  
G- -G -G -G G- -G  
-H -H -H H- H- H-  
-I I- I- -I I- I-  
J- J- -J -J -J -J  
-K K- K- K- -K -K  
L- -L -L L- -L L-  
-M -M M- M- M- M-  
-N -N -N N- -N N-  
O- O- O- O- -O -O  
P- P- -P -P -P -P  
Q- Q- -Q Q- Q- -Q  
-R R- -R -R -R  
-S S- S- S- -S  
T- T- T- T-  
-U U- U- -U  
-V -V -V  
-W X- -X  
X- -Y  
Y- -Z  
Z-

NO 4

CONFIDENTIAL

PIN SET-UP

A-	-A	A-	-A	A-	-A	-A-	A-	-A	-A	-A	-A
-B	-B	-B	-B	B-	B-	-B	B-	B-	B-	B-	-B
-C	-C	-C	-C	C-	-C	-C	-C	C-	C-	-C	-C
-D	-D	D-	D-	D-	-D	-D	-D	-D	-D	-D	-D
E-	-E	E-	-E	E-	-E	-E	E-	E-	E-	-E	E-
F-	-F	F-	F-	F-	F-	-F	F-	F-	-F	-F	F-
G-	-G	-G	-G	G-	-G	G-	G-	G-	G-	-G	G-
-H	H-	-H	H-	-H	H-	-H	-H	-H	H-	H-	H-
-I	I-	-I	I-	-I	I-	I-	I-	-I	I-	-I	I-
J-	-J	-J	-J	-J	J-	-J	-J	J-	J-	-J	J-
K-	-K	-K	K-	-K	-K	K-	-K	-K	-K	-K	K-
-L	-L	-L	L-	L-	-L	L-	L-	L-	-L	-L	-L
-M	-M	M-	-M	-M	M-	M-	-M	M-	-M	M-	-M
-N	N-	-N	N-	-N	N-	N-	-N	N-	N-	-N	N-
O-	O-	-O	-O	O-	O-	O-	-O	-O	O-	O-	O-
-P	P-	-P	P-	-P	-P	-P	-P	P-	-P	P-	-P
-Q	-Q	Q-	Q-	-Q	-Q	-Q	Q-	Q-	-Q	Q-	-Q
-R	R-	-R	R-	R-		-R	-R	R-	-R	R-	
S-	S-	S-	-S	-S		-S	S-	S-	S-	S-	
T-	T-	T-	T-			-T	T-	-T	T-		
-U	U-	U-	U-			U-	-U	-U	-U		
V-	V-	V-				-V	-V	-V			
-W	X-	X-				W-	X-	-X			
X-	Y-					-X	Y-				
-Y	-Z					Y-	-Z				
-Z						Z-					

NO 5

NO 6

CONFIDENTIAL

PIN SET-UP

A-	-A	A-	-A	-A	-A	-A	A-	-A	-A	A-	-A	-A
-B	-B	B-	-B	-B	B-	B-	B-	-B	B-	B-	-B	-B
-C	C-	-C	-C	C-	-C	-C	-C	C-	C-	-C	-C	-C
D-	-D	-D	D-	D-	D-	D-	D-	D-	D-	-D	D-	D-
E-	-E	-E	E-	E-	-E	-E	-E	E-	-E	-E	E-	-E
-F	-F	-F	F-	-F	F-	F-	F-	F-	-F	-F	F-	-F
G-	-G	G-	G-	-G	G-	G-	G-	-G	-G	-G	G-	-G
H-	-H	-H	H-	-H	H-	H-	H-	-H	-H	-H	-H	H-
I-	I-	-I	I-	I-	I-	I-	-I	-I	I-	I-	I-	I-
-J	-J	-J	J-	J-	-J	-J	-J	J-	-J	-J	J-	-J
-K	-K	K-	K-	-K	-K	-K	K-	K-	K-	K-	K-	K-
-L	-L	-L	L-	-L	-L	-L	L-	-L	-L	-L	-L	L-
-M	M-	-M	M-	-M	M-	M-	M-	M-	-M	-M	M-	-M
N-	-N	-N	N-	-N	N-	N-	-N	N-	N-	-N	-N	N-
O-	O-	O-	O-	O-	O-	O-	-O	O-	O-	-O	O-	O-
-P	-P	-P	P-	-P	-P	-P	-P	P-	-P	-P	P-	P-
Q-	Q-	Q-	-Q	-Q	Q-	Q-	Q-	-Q	-Q	-Q	Q-	-Q
R-	-R	-R	-R	R-			-R	R-	R-	R-	-R	
-S	S-	S-	-S	S-			-S	-S	S-	S-	S-	
T-	T-	-T	-T				-T	T-	-T	T-		
U-	U-	-U	-U				-U	U-	U-	U-		
-V	-V	V-					-V	-V	V-			
-W	X-	X-					W-	-X	-X			
X-	Y-						X-	-Y				
Y-	Z-						Y-	Z-				
-Z							Z-					

NO 7

NO 8

ITEM 8B

SHEET 4

CONFIDENTIAL

CONFIDENTIAL

LUG SET-UP

	1	2	3	4	5	6		1	2	3	4	5	6	
1	X					X		1	X					
2	X							2		X				
3	X							3		X				
4	X							4		X				
5	X			X				5		X				
6	X			X				6		X				
7	X	X						7		X				
8		X		X				8			X			
9		X	X					9			X			
10			X					10			X			
11			X					11			X			
12			X					12			X			
13			X					13				X		
14			X					14			X		X	
15			X					15					X	
16			X					16					X	
17			X					17					X	
18			X					18					X	
19			X					19					X	
20			X	X				20					X	
21			X	X				21					X	
22				X				22					X	
23				X				23					X	
24				X				24					X	
25				X				25						X
26				X		X		26						X
27					X			27						X

NO 1

NO 2



CONFIDENTIAL

LUG SET-UP

	1	2	3	4	5	6		1	2	3	4	5	6
1	X							1	X				
2	X					X		2	X				
3	X							3	X	X			
4	X		X					4	X				
5			X					5	X				
6				X				6	X				
7				X				7	X				
8				X				8	X				
9				X				9	X			X	
10				X				10				X	
11				X				11				X	
12				X				12				X	
13				X				13				X	
14				X		X		14				X	
15				X		X		15				X	
16					X			16				X	
17					X			17				X	
18					X			18				X	
19					X			19				X	
20					X			20				X	X
21					X			21					X
22					X			22					X
23					X	X		23					X
24					X	X		24					X
25						X		25			X		
26						X		26		X			
27		X						27		X			

NO 3

NO 4

CONFIDENTIAL

LUG SET-UP

1	2	3	4	5	6	1	2	3	4	5	6
1	X					1	X				
2	X					2	X				
3		X				3					X
4		X				4					X
5		X				5	X				X
6		X				6	X				X
7		X				7	X				
8		X				8	X				
9		X	X			9	X				
10		X	X			10	X				
11			X			11	X				
12			X			12	X				
13			X			13	X	X			
14			X			14	X	X			
15			X			15		X			
16			X			16		X			
17			X			17		X			
18			X	X		18		X		X	
19			X	X		19		X		X	
20				X		20				X	
21				X		21				X	
22				X		22				X	
23				X	X	23				X	
24					X	24				X	
25					X	25				X	
26					X	26				X	
27				X		27			X		

NO 5

NO 6

CONFIDENTIAL

LUG SET-UP

1	2	3	4	5	6	1	2	3	4	5	6
1		X				1	X				
2	X					2	X				
3	X					3	X				
4	X					4	X				
5	X					5	X				
6	X					6	X				
7	X					7	X				
8				X		8	X				
9				X		9	X	X			
10	X					10	X	X			
11	X					11		X			
12	X					12		X			
13	X	X				13		X		X	
14	X	X				14				X	
15	X					15				X	
16	X					16				X	X
17	X					17					X
18	X					18					X
19	X		X			19					X
20			X		X	20					X
21			X		X	21					X
22					X	22					X
23	X				X	23		X			X
24	X				X	24		X			X
25					X	25					X
26					X	26					X
27					X	27			X		

NO 7

NO 8

CONFIDENTIAL

1. THE FOLLOWING KEY WHEEL PIN AND DRUM BAR SET-UPS ARE EFFECTIVE ON THE DATES INDICATED THE 26 LETTER CHECK IS GIVEN FOR EACH DAY.

0105000ZMAY 1945                    PELJT REMBN ISRLP USVAO DXSPL P  
    PIN 6 LUG 8    INDICATOR SO  
    26 LETTER CHECK :

0205000ZMAY 1945                    CPOSN OOISO TVNGM MOTKO LEJGP W  
    PIN 7 LUG 6    INDICATOR BL  
    26 LETTER CHECK :

0305000ZMAY 1945                    NZZTS ZHRHC LWLVU IRPTB YJOWV F  
    PIN 8 LUG 2    INDICATOR AB  
    26 LETTER CHECK :

0405000ZMAY 1945                    HHLTJ LTKOL YOOKF FOMCL JELKH U  
    PIN 7 LUG 2    INDICATOR XO  
    26 LETTER CHECK :

0505000ZMAY 1945                    KCDAV JXJAP NSNNS VTRBP TSOZC X  
    PIN 5 LUG 6    INDICATOR ZO  
    26 LETTER CHECK :

0605000ZMAY 1945                    TAZUK WPLJI XSIPZ STORC VXOUP M  
    PIN 8 LUG 7    INDICATOR AO  
    26 LETTER CHECK :

0705000ZMAY 1945                    WRCKW NSJRJ LVWON LYOON ORKOY T  
    PIN 2 LUG 3    INDICATOR FE  
    26 LETTER CHECK :

0805000ZMAY 1945                    HFOSN KVLPK XOOMI IOPDO HFMMF X  
    PIN 7 LUG 4    INDICATOR BN  
    26 LETTER CHECK :

0905000ZMAY 1945                    MZZOR UCWPK OOSPW FUVXA TNUXP B  
    PIN 8 LUG 6    INDICATOR RX  
    26 LETTER CHECK :

1005000ZMAY 1945                    QWZFP XLAZO PWHPK EJPVJ RJIVP C  
    PIN 8 LUG 1    INDICATOR PY  
    26 LETTER CHECK :

1105000ZMAY 1945                    KOSXK FOILF QNVPR RUWNS QOSPO R  
    PIN 7 LUG 3    INDICATOR CU  
    26 LETTER CHECK :

CONFIDENTIAL

1205000ZMAY 1945 PIN 6 LUG 5 26 LETTER CHECK :	<u>OGRLV TGIHK HXUIO YXSFS ARXNC N</u> INDICATOR AX
1305000ZMAY 1945 PIN 5 LUG 8 26 LETTER CHECK :	<u>FCKAV JRJAL JLOJS MTIBQ TSKZC Y</u> INDICATOR GR
1405000ZMAY 1945 PIN 1 LUG 2 26 LETTER CHECK :	<u>FFXMX SOKYR PREBV NFOFI KLORZ T</u> INDICATOR UA
1505000ZMAY 1945 PIN 1 LUG 8 26 LETTER CHECK :	<u>MMSMS RPWTQ WNGAY REKBK ILVQU S</u> INDICATOR RV
1605000ZMAY 1945 PIN 1 LUG 7 26 LETTER CHECK :	<u>HHWKW KJPVL QTACZ TMFMT NIQLW L</u> INDICATOR EQ
1705000ZMAY 1945 PIN 4 LUG 1 26 LETTER CHECK :	<u>PAMEP PVUJH AGHJP RMGOM ALZJN P</u> INDICATOR DE
1805000ZMAY 1945 PIN 8 LUG 8 26 LETTER CHECK :	<u>RZZPR UCQNI VMLLX MNWXA TUVRL B</u> INDICATOR PL
1905000ZMAY 1945 PIN 7 LUG 5 26 LETTER CHECK :	<u>NOSSN SMAWS VNJOK KPIHS RIGOO O</u> INDICATOR FK
2005000ZMAY 1945 PIN 3 LUG 6 26 LETTER CHECK :	<u>MOORZ MNFME ZVUWO XJZLO PYPTO T</u> INDICATOR BR
2105000ZMAY 1945 PIN 1 LUG 4 26 LETTER CHECK :	<u>EEWPW ROKXR TTBAY NGOGJ IOSRY S</u> INDICATOR OM
2205000ZMAY 1945 PIN 5 LUG 1 26 LETTER CHECK :	<u>DLBAP VVVAP NHLNW TOOCN OHVZL O</u> INDICATOR RA

CONFIDENTIAL

2305000ZMAY 1945 PIN 5 LUG 4 26 LETTER CHECK :	<u>RHEAO JVJAT NOONS EIDGW IHOZH Y</u> INDICATOR ZI
2405000ZMAY 1945 PIN 6 LUG 7 26 LETTER CHECK :	<u>IEPCV UEKMT IUTII WUXCS BRWJI J</u> INDICATOR SU
2505000ZMAY 1945 PIN 5 LUG 2 26 LETTER CHECK :	<u>OHCAL MWMAY PLOPT FFcfu FDOZH V</u> INDICATOR FI
2605000ZMAY 1945 PIN 2 LUG 8 26 LETTER CHECK :	<u>OSICQ MWRXA HOMPn XWVPP KSCVU Y</u> INDICATOR HP
2705000ZMAY 1945 PIN 7 LUG 1 26 LETTER CHECK :	<u>LZPWJ UFAVU RULMO OVPOP VKKMZ K</u> INDICATOR VN
2805000ZMAY 1945 PIN 3 LUG 4 26 LETTER CHECK :	<u>JUORZ NNLIF ZQTXO VJZSK WVWPJ X</u> INDICATOR IB
2905000ZMAY 1945 PIN 5 LUG 7 26 LETTER CHECK :	<u>OPHAX QUQAP CIKCL HOIMV OOFZP Z</u> INDICATOR LF
3005000ZMAY 1945 PIN 5 LUG 3 26 LETTER CHECK :	<u>JKGAS MOMAL KMKX FRNAW RJUZK Z</u> INDICATOR QI
3105000ZMAY 1945 PIN 1 LUG 3 26 LETTER CHECK :	<u>EEYWY PNSOX YNBZJ JAUAO CMOXY X</u> INDICATOR JI