

INSTRUCTOR'S GUIDE

For

RADIO CODE INSTRUCTIONAL RECORDINGS

NAVPERS 11200RA-11235RB



BUREAU OF NAVAL PERSONNEL

## GENERAL DESCRIPTION

Radio Code Instructional Recordings, NAVPERS 11200RA-11235RB, consists of 36 records (72 sides of recordings). This Device is designed so it can be used for either group or individual instruction. The recordings themselves give complete information for learning of the International Morse Code as well as the radio telephone International Civil Aviation Organization phonetic alphabet.

## OPERATION

Use a 78 RPM turntable for playing the records. Group instruction can be obtained by feeding the output of the recording through an amplifier speaker system. To permit individual instruction each trainee must use a separate turntable amplifier whose output has been designed to permit use of headphones. In learning the code students should first play side number 1, which contains the introduction and information on using the Device as well as practice in learning the letters T M O and numeral Ø (zero). Letters, numerals and punctuation in subsequent recordings have been arranged in groupings for proper learning. Recordings, therefore, should be played in sequence rather than in a heterogeneous manner.

## RELATED INFORMATION AND RECOMMENDATIONS

Under actual operating conditions there are often two or more operators in a room receiving signals on different frequencies. Hence, headphones are used in lieu of a speaker system. Headphones also help to eliminate extraneous noises. If conditions permit under the learning situation, therefore, it is recommended that individual instruction be given by having each student use an individual 78 RPM amplifier designed to permit use of headphones.

## UTILIZATION

For most effective use of these recordings and for most rapid learning, the following is recommended:

- a. Practice at least one hour every day.
- b. Do not practice sending code until you come to the side of the record which introduces the correct sending procedure (Side 25).
- c. Do not memorize the code without hearing it.
- d. Type or print the letters as you hear the code sounds.

Students are aware of individual progress because of quizzes, which are administered by the recordings themselves. Characters are

transmitted from the first recording at a speed of 20 words per minute.

ANSWERS TO TEST AT 10 WPM (Side 48):

Charlie November Kilo Victor 4 Sierra Alfa Alfa  
India Sierra Quebec Alfa Yankee 7 India Delta Quebec  
Lima Tango Tango Tango Bravo Charlie Juliett Delta  
Oscar Lima Whiskey 5 Tango Bravo Bravo Juliett Tango  
Romeo Bravo Zulu 8 Juliett Echo Romeo Mike Uniform  
Uniform Uniform Charlie Delta Kilo Echo Papa Mike  
X-ray 6 Uniform Charlie Charlie Kilo Uniform Charlie  
Sierra 1 9 Kilo Foxtrot Sierra November Victor Victor  
Whiskey Delta Echo Lima Foxtrot Quebec November  
Yankee 7 Victor Delta November Lima Victor Tango  
Delta 2 Ø Zero Lima Golf Tango Oscar Oscar Whiskey  
X-ray Echo Foxtrot Mike Golf Romeo Oscar Zulu 8  
Whiskey Echo Oscar Mike Whiskey Uniform Echo 3  
/ Slant Sign Mike Hotel Uniform Papa Papa X-ray Yankee  
Foxtrot Golf November Hotel Sierra Papa 1 9 X-ray  
Foxtrot Papa November X-ray Victor Foxtrot 4 Alfa  
November India Victor Quebec Quebec Yankee Zulu Golf  
Hotel Oscar India Tango Quebec 2 Ø Zero Yankee

ANSWERS TO TEST AT 10 WPM (Side 48): (Cont'd.)

Golf Quebec Oscar Yankee Whiskey Golf 5 Bravo Oscar  
Juliect Whiskey Romeo Romeo Zulu Alfa Hotel India Papa  
Juliect Uniform Romeo 3 / Slant Sign Zulu Hotel Romeo

ANSWERS TO TEST AT 16 WPM (Side 72):

Tango Hotel Victor X-ray Papa 5 Alfa Golf Mike Sierra  
Mike November Whiskey Juliect Sierra Echo X-ray  
November Sierra Echo Alfa Whiskey Juliect Victor X-ray  
Tango 2 Mike Echo Oscar Romeo Golf 9 Delta Juliect  
Echo Kilo Kilo Tango Tango Golf Echo Bravo Foxtrot 1  
7 Bravo Hotel November Tango Golf 3 November Foxtrot  
Yankee Hotel Foxtrot 0 Zero Echo Kilo Foxtrot Lima  
Quebec Yankee Lima Tango Golf Hotel Golf 2 8 Charlie  
India Oscar Uniform Hotel Sierra Tango Golf Tango  
Foxtrot Echo India Victor Uniform Delta November Delta  
Echo Juliect Hotel 4 Bravo Whiskey Tango India Mike  
/ Slant Sign Foxtrot Lima Charlie Bravo Hotel Uniform  
Hotel India Quebec Foxtrot Hotel 4 9 Delta Juliect Papa  
Victor Juliect Whiskey Juliect Juliect Uniform Charlie

ANSWERS TO TEST AT 16 WPM (Side 72): (Cont'd.)

Hotel Hotel Bravo Delta Foxtrot Quebec Lima Mike India  
Juliatt 5 Victor Quebec Echo Hotel November Alfa Golf Mike  
Golf November India India November Echo Juliatt Whiskey  
India 3 Zero Echo Kilo Quebec Whiskey Golf November  
Uniform Hotel November November India Bravo November  
Delta Hotel Sierra Echo November November Kilo 6 Charlie  
Romeo Foxtrot Yankee 7 Bravo Hotel November Hotel Mike  
Yankee Oscar Mike Uniform Hotel Echo Yankee 6 / Slant Sign  
Foxtrot Lima Romeo X-ray Whiskey X-ray Uniform India Mike  
Bravo Victor Mike Uniform Victor India Sierra Hotel Sierra  
Quebec Quebec Sierra Hotel Sierra India Victor Uniform Mike  
Victor Bravo Mike India Uniform X-ray Whiskey X-ray Romeo  
Lima Foxtrot / Slant Sign 6 Yankee Echo Hotel Uniform Mike  
Oscar Yankee Mike Hotel November Hotel Bravo 7 Yankee  
Foxtrot Romeo Charlie 6 Kilo November November Echo  
Sierra Hotel Delta November Bravo India November November  
Hotel Uniform November Golf Whiskey Quebec Kilo Echo  
Ø Zero 3 India Whiskey Juliatt Echo November India India  
November Golf Mike Golf Alfa November Hotel Echo  
Quebec Victor 5 Juliatt

INTERFERENCE (Side 71):

Code is sent for the three speeds and tones mentioned. All are sent at the same time. The code for the 10 words per minute is as follows:

Cushions on the sofa      fireplace with oak panels      covering  
on the chair      interesting look      she glows      radiates with  
poise      wrapped from the end      scalp tingles      bothers  
most      sand dune      not enough      new school      some

The code for the 13 words per minute is as follows:

Glass Lower Level The Timber Large Eye Areas Fixed  
Some Room Around As Bricks Steel Built Face Both  
Views Wide Taper Wells Columns To Couches Living  
Table Slides Pocket Or Banquet Size Glasses Breakfast  
Kitchen Assure Supervision Interior Row Alternated Light  
Serves House Planned Most Major Ribbon Range

The code for the 16 words per minute is as follows:

VDLT7	GO9BJ	R1AIN	VDLTB	JQYHP	MUCLT	BJRZH
PXFMU	AEMU8	HPØCK	S2BJØ	JEMUC	KRZGO	NVDMU
CKSAI	QYGNV	WFN1A	IQ/DL	T3C9P	XFNV D	LSBJR
OWENV	DLTBJ	RZHOW	XGO2B	JRWEM	U4DØQ	YGOWE

INTERFERENCE (Side 71): Cont'd.

The code for the 16 words per minute is as follows: (cont'd.)

MTAIQ	PXFLOW	EMUCK	SAIPX	YHP3C	KSXFN	V5E/R
ZHPXF	NUCLT	QYGPX	FNVDL	TBJQY	ZIQ4D	LT YGO
W6FKS	AIQYG	OVDKS	RZHQY	GOWEM	UCKRZ	BJR5E
MUZHP	X7GLT	BJRTH				

#### MAINTENANCE

Because of the high vinyl content of these records, they sometimes pick up static charges causing lint and dust to adhere to them.

Wiping the record with a damp cloth will eliminate this effect.

Keep the records in the containers and standing upright. Do not stack records one on top of the other. They are unbreakable but not unscratchable. Scratches will cause ticks, bats and surface noise.

Handle records by the edge only.

Check needle condition of your record player.

KEEP AWAY FROM HEAT.

#### SUPPLEMENTARY INFORMATION

In the pronunciation guide for the sounds of the letters given below, the sounds are written out as euphoniously as possible. In the middle of a group the short sound "dit" actually takes on the sound of "di", the i being very short. The ICAO phonetic alphabet used in radio-

telephone procedure is included in parentheses after the letters.

INTERNATIONAL MORSE CODE

LETTER	ICAO PHONETIC ALPHABET	EUPHONIC SYMBOL
A	(ALPHA)	di-DAH
B	(BRAVO)	DAH-di-di-dit
C	(CHARLIE)	DAH-di-DAH-dit
D	(DELTA)	DAH-di-dit
E	(ECHO)	dit
F	(FOXTROT)	di-di-DAH-dit
G	(GOLF)	DAH-DAH-dit
H	(HOTEL)	di-di-di-dit
I	(INDIA)	di-dit
J	(JULIETT)	di-DAH-DAH-DAH
K	(KILO)	DAH-di-DAH
L	(LIMA)	di-DAH-di-dit
M	(MIKE)	DAH-DAH
N	(NOVEMBER)	DAH-dit
O	(OSCAR)	DAH-DAH-DAH
P	(PAPA)	di-DAH-DAH-dit

INTERNATIONAL MORSE CODE (cont'd.)

LETTER	ICAO PHONETIC ALPHABET	EUPHONIC SYMBOL
Q	(QUEBEC)	DAH-DAH-di-DAH
R	(ROMEO)	di-DAH-dit
S	(SIERRA)	di-di-dit
T	(TANGO)	DAH
U	(UNIFORM)	di-di-DAH
V	(VICTOR)	di-di-di-DAH
W	(WHISKEY)	di-DAH-DAH
X	(X-RAY)	DAH-di-di-DAH
Y	(YANKEE)	DAH-di-DAH-DAH
Z	(ZULU)	DAH-DAH-di-dit

NUMBER	PRONUNCIATION
1	di-DAH-DAH-DAH-DAH
2	di-di-DAH-DAH-DAH
3	di-di-di-DAH-DAH
4	di-di-di-di-DAH
5	di-di-di-di-dit

INTERNATIONAL MORSE CODE Cont'd.

NUMBER	PRONUNCIATION
6	DAH-di-di-di-dit
7	DAH-DAH-di-di-dit
8	DAH-DAH-DAH-di-dit
9	DAH-DAH-DAH-DAH-dit
0	DAH-DAH-DAH-DAH-DAH
/	DAH-di-di-DAH-dit

NOTE: In naval communications it is the accepted practice to write the "Zero" as 0 to avoid confusion with the letter O (OSCAR).

INDEX  
RADIO CODE INSTRUCTIONAL RECORDINGS

VOLUME I

RECORDING NUMBER		SIDE NUMBER
11200RA	Introduction, Letters TMO and Numeral Zero	1
11200RB	Letters EISH and Numeral 5	2
11201RA	Alphabet Practice, 9 Characters	3
11201RB	Letters ARDC	4
11202RA	Alphabet Practice, 13 Characters	5
11202RB	Letters NUP	6
11203RA	Alphabet Practice, 16 Characters	7
11203RB	Letters WF and Numeral 1	8
11204RA	Alphabet Practice, 19 Characters	9
11204RB	Letters GL and Slant Sign	10
11205RA	Alphabet Practice, 22 Characters	11
11205RB	Letter B and Numerals 2, 9	12
11206RA	Alphabet Practice, 25 Characters	13
11206RB	Letter J and Numerals 3, 8	14
11207RA	Alphabet Practice, 28 Characters	15
11207RB	Letters KV and Numeral 6	16
11208RA	Alphabet Practice, 31 Characters	17
11208RB	Letter Q and Numeral 7	18

INDEX  
RADIO CODE INSTRUCTIONAL RECORDINGS

VOLUME I

RECORDING NUMBER		SIDE NUMBER
11200RA	Introduction, Letters TMO and Numeral Zero	1
11200RB	Letters EISH and Numeral 5	2
11201RA	Alphabet Practice, 9 Characters	3
11201RB	Letters ARDC	4
11202RA	Alphabet Practice, 13 Characters	5
11202RB	Letters NUP	6
11203RA	Alphabet Practice, 16 Characters	7
11203RB	Letters WF and Numeral 1	8
11204RA	Alphabet Practice, 19 Characters	9
11204RB	Letters GL and Slant Sign	10
11205RA	Alphabet Practice, 22 Characters	11
11205RB	Letter B and Numerals 2, 9	12
11206RA	Alphabet Practice, 25 Characters	13
11206RB	Letter J and Numerals 3, 8	14
11207RA	Alphabet Practice, 28 Characters	15
11207RB	Letters KV and Numeral 6	16
11208RA	Alphabet Practice, 31 Characters	17
11208RB	Letter Q and Numeral 7	18

INDEX (Cont'd.)

RECORDING NUMBER		SIDE NUMBER
11209RA	Alphabet Practice, 33 Characters	19
11209RB	Letters X and Z	20
11210RA	Alphabet Practice, 35 Characters	21
11210RB	Letter Y and Numeral 4	22
11211RA	Alphabet Practice, 37 Characters	23
11211RB	Alphabet Review	24

VOLUME II

11212RA	Introduction to Sending	25
11212RB	Letters, 4 Words Per Minute	26
11213RA	Letters, 4 Words Per Minute	27
11213RB	Letters, 5 Words Per Minute	28
11214RA	Two-Letter Words, 5 Words Per Minute	29
11214RB	Two-Letter Groups, 5 Words Per Minute	30
11215RA	Common Words, 6 Words Per Minute	31
11215RB	Common Words, 6 Words Per Minute	32
11216RA	Two-Letter Groups, 6 Words Per Minute	33
11216RB	Numbers	34
11217RA	Letters, 7 Words Per Minute	35
11217RB	Two-Letter Groups, 7 Words Per Minute	36
11218RA	Three-Letter Words, 7 Words Per Minute	37

INDEX (Cont'd.)

RECORDING NUMBER		SIDE NUMBER
11218RB	Letters, 8 Words Per Minute	38
11219RA	Words, 8 Words Per Minute	39
11219RB	Three-Letter Groups, 8 Words Per Minute	40
11220RA	Letters, 9 Words Per Minute	41
11220RB	Two-Letter Groups, 9 Words Per Minute	42
11221RA	Three-Letter Groups, 9 Words Per Minute	43
11221RB	Letters, Ten Words Per Minute	44
11222RA	Three-Letter Groups, 10 Words Per Minute	45
11222RB	Words, 10 Words Per Minute	46
11223RA	Four-Letter Groups, 10 Words Per Minute	47
11223RB	Test, 10 Words Per Minute	48

VOLUME III

11224RA	Letters, 11 Words Per Minute	49
11224RB	Four-Letter Groups, 11 Words Per Minute	50
11225RA	Words, 11 Words Per Minute	51
11225RB	Letters, 12 Words Per Minute	52
11226RA	Words, 12 Words Per Minute	53
11226RB	Four-Letter Code Groups, 12 Words Per Minute	54
11227RA	Letters, 13 Words Per Minute	55