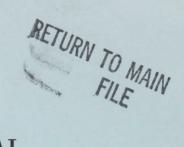
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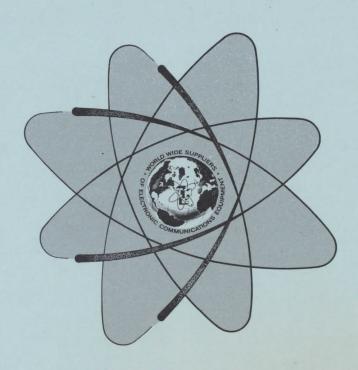
# TECHNICAL MANUAL for

SERVICE MANUAL

for

ANTENNA SWITCHING

AX5212



THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, N.Y. OTTAWA, ONTARIO

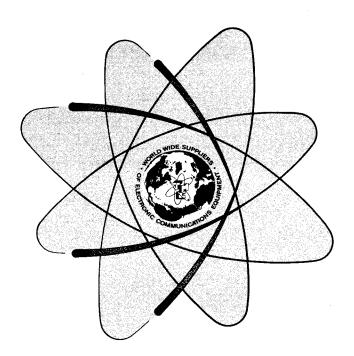
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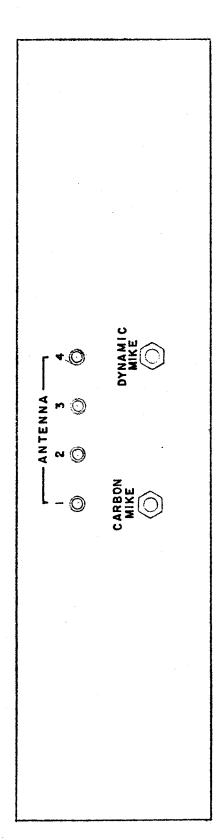
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# RECORD OF CORRECTIONS MADE

Change No.	Date of Change	Date Entered	Entered By
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ANTENNA SWITCHING UNIT

AX5212

### SECTION 1

#### GENERAL INFORMATION

# 1-1. AX5212 ANTENNA SWITCHING UNIT

## FUNCTIONAL DESCRIPTION

AX5212 is a Ledex controlled 4 channel (outputs) switching unit. It takes the RF output of GPTR-1KC and by means of 4 position switching allows 4 separate RF outputs to be used for multi-antenna operation.

By proper programming of diodes CR1, CR2, CR3, CR4, and combinations of antenna selection can be achieved. (Example: by tieing CR1 and CR2 to E1. Both channels 1 and 2 will programmed to antenna output).

The front panel has antenna switching indicators DS1, DS2, DS3, and DS4 carbon mike and dynamic mike inputs. Microphone inputs are connected to SME-5C and are used for local operation. PTT operation is also brought to this panel. 24 volt Ledex control voltage is derived from TMA-1KC power supply. Channel information 1, 2, 3, 4, and TB101 are connected to channel inputs on TMA. A voltage fed to TB101 results in notch homing waffer S101 programming bandswitching to proper output. Q101 SCR firing sequence is accomplished by this trigger voltage and S101 contacts.

Output connectors are SO239 (4).

Input connectors are UG 496/U.

PARTS LIST

# AX5212

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
C101	CAP, FIXD, CER	CC131-39
CR101 CR102 CR103	SCOND, DEV, DIO. SCOND, DEV, DIO. SAME AS CR101	1N645 1N547
F101	TWO AMP FUSE	FU100-2
J101 J102 J103 J104 J105	RF CONNECTOR ANT. CONNECTOR SAME AS J102 SAME AS J102 SAME AS J103	UG496/U S0239A
J106	JACK TELEPHONE	JJ083
R101 R102	RES, FIXED, COMP. SAME AS R101	RC07GF102J
R103	RES, FIXD, COMP.	RC07GF222J
Q101	TRANSISTOR	2N1776

PARTS LIST Z101

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
C1 C2 C3 C4 C5 C6 C7 C8	CAP, FIXD, CER, SAME AS C1	CC131-39
CR1 CR2 CR3 CR4	SCOND, DEV, DIO SAME AS CR1 SAME AS CR1 SAME AS CR1	1N5061
DS 1 DS 2 DS 3 DS 4	INDICATOR, LED SAME AS DS1 SAME AS DS1 SAME AS DS1	B]132

