

# TMC SPECIFICATION

NO. S1344

REV:

COMPILED:

CHECKED:

APPD:

SHEET

OF

TITLE:

KLT407

TUNE VACUUM CAPACITOR MODIFICATION

# TMC SPECIFICATION

NO. S 1344

REV:

COMPILED:

CHECKED:

APPD:

SHEET

OF

TITLE:

Tune Vacuum Capacitor Modification

After modification has been completed, the following checks should be made to assure proper operation.

1. Check travel of capacitor for clockwise, and counter-clockwise rotation, if motor has a tendency to bind before reaching upper and lower limits, check for mechanical misalignment.
2. Check tuning of transmitter in automatic mode at band ends, if chatter or instability is encountered, it will be necessary to change shunt resistor located on IPA band switch, A1002, S2C, lowering resistor value in small resistance increments until servo loop is stable.

# TMC SPECIFICATION

NO. S1344

REV:

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TITLE:

Tune Vacuum Capacitor Modification

## PURPOSE

Kit407 replaces Air Tuning Capacitor Assembly, A1001 with Vacuum Capacitor Assembly, AX5196. This results in a more reliable IPA tuning network, which is not susceptible to capacitor flash-over and environmental conditions. (Refer to pictorial, figure 5-16 (manual) supplied, for position of A1001.

Kit407 consists of a complete tune capacitor assembly with servo motor. It is electrically and mechanically interchangeable on a one to one basis. When it is installed, careful consideration of RF HF coil placement is necessary to obtain proper spacing of coil and breakdown to ground.

## AZ119 Modification

It is necessary to make electrical changes to Servo Amplifier AZ119. Refer to CK1681, rev. A, schematic diagram (supplied). Note 4 on CK1681 refers to electrical modifications that must be incorporated. When modification is completed, servo tuning sequence of transmitter will remain the same with the exception that IPA search mode direction will not be continuously clockwise, but will search back and fourth, clockwise and counter-clockwise to upper and lower limits until RF trigger is achieved.

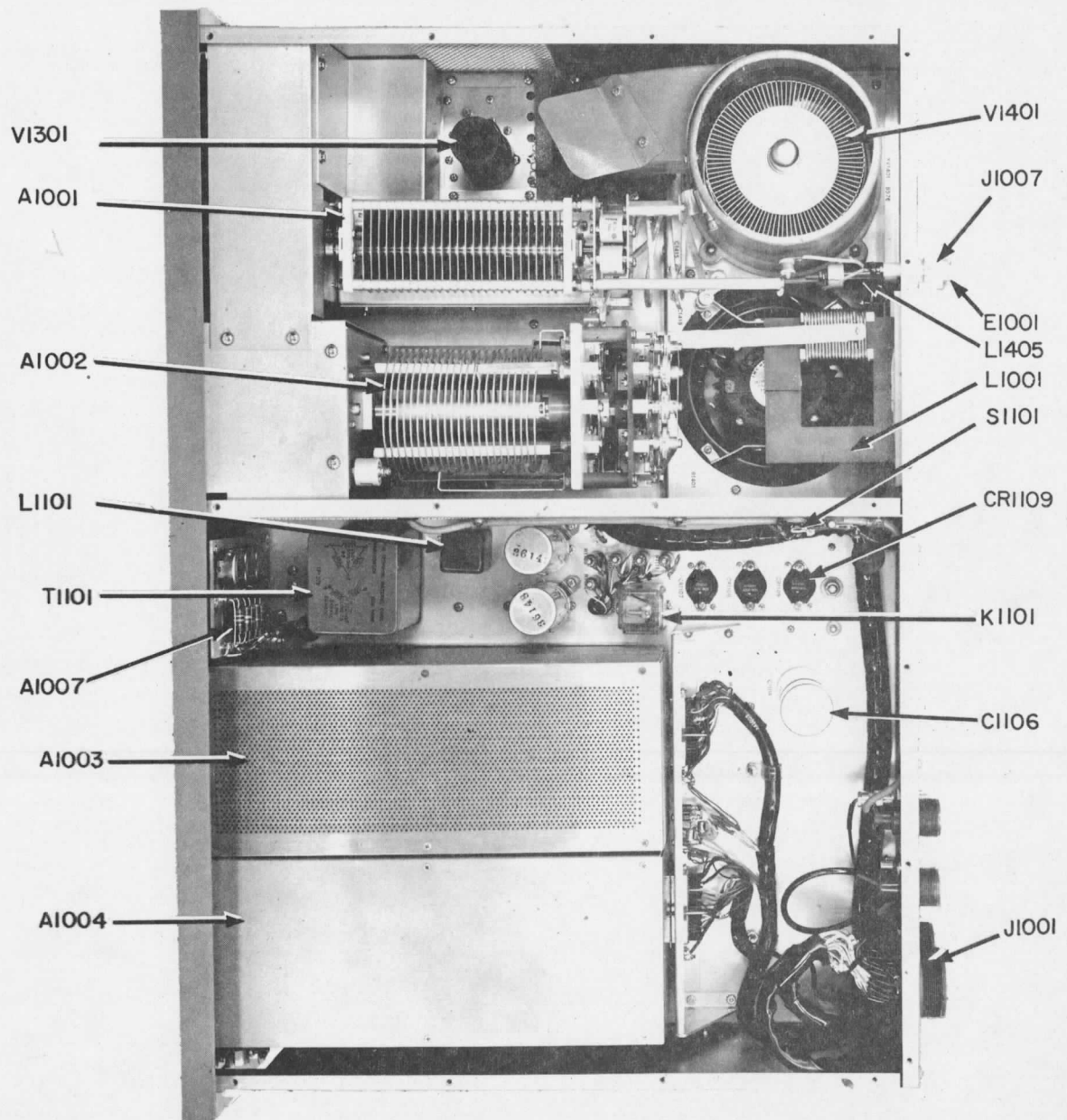


Figure 5-16. IPA Drawer Top View

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

NEXT ASSY:

QTY PER NEXT ASSY:

PART NUMBER  
(20 digits)

DESCRIPTION  
(14 digits)

USED ON MODEL:

ASSY TITLE: VAC TUNE CAP MOD

ASSY PART NO.:

KIT 407

ITEM LOCATION

USED ON ASSEMBLY

USED TO MOUNT

QTY PER U/T/M

REFERENCE SYMBOLS

SPECIAL NOTES REFER TO S1200

REV.

AX5218

IPA TUNE VAC CAP ASSY  
(WITH DRAWINGS)

KIT 407

1

1

CK1681

DIA SCHEMATIC

KIT 407

1

1

FIGURE 5-16

IPA DRAWER TOP VIEW  
(FROM HFLA-10K MANUAL)

KIT 407

1

1

LWC 24(7) U1

WIRE 50" INCHS

KIT 407

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LWC 24(7) U2

WIRE 50" INCHS

KIT 407

\*

LWC 24(7) U3

WIRE 50" INCHS

KIT 407

\*

C4142-10

TIE WRAP

KIT 407

10

S1344

INSTRUCTIONS