

PRELIMINARY

FINAL

# MATERIAL LIST

FOR

REVISION

TOTAL SHEETS

TMC MODEL - KIT 401

TITLE - ANTENNA TUNER

INSTALLATION

REV.	SHEET (S)	DATE	APPR.
Ø	ORIG REL	10/17/74	

USED ON  
MODEL -

(HFTA-1KJ2 RAK138-1A)

CONSISTS OF  
SUPPORTING LISTS

LAST SYMBOLS

SYMBOLS NOT USED

COMPILED R U220  
CHECKED RU  
ENG APPR \_\_\_\_\_  
FNL APPR \_\_\_\_\_  
ISS DATE \_\_\_\_\_

ENGINEERING JOB NUMBER

# E \_\_\_\_\_

§ FOR SPECIAL NOTES,  
REFER TO S1200.

# MATERIAL LIST

KIT401  
REV Ø

PAGE 1 OF 1

PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY. PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200
CA1759	CABLE, BRCHD	KIT401				
CK2081	DIAGRAM, SCHEM	KIT401				
RC07GF102J	RES, FXD, COMP	KIT401	1	1*	R214	
RC07GF152J	RES, FXD, COMP	KIT401	1	1*	R213	
RC07GF201J	RES, FXD, COMP	KIT401	1	1*	R210	
RC07GF221J	RES, FXD, COMP	KIT401	1*	1*	R217	
RC07GF241J	RES, FXD, COMP	KIT401	1	1*	R211	
RC07GF431J	RES, FXD, COMP	KIT401	1	1*	R212	
RC07GF511J	RES, FXD, COMP	KIT401	1	1*	R216	
RC07GF681J	RES, FXD, COMP	KIT401	1	1*	R215	
1N645	SCOND, DEV, DIO	KIT401	1	1*	CR203	

# TMC SPECIFICATION

NO. 27344

REV: 0

COMPILED: R U220

CHECKED:

APPD: [Signature]

SHEET OF

TITLE:

KIT 401

ANTENNA TUNER INSTALLATION

# TMC SPECIFICATION

NO. Kit 401

REV: 

COMPILED:

CHECKED:

APPD:

SHEET 1 OF 2

TITLE: ANTENNA TUNER INSTALLATION

## PURPOSE:

To insure proper operation of an Antenna Tuner (ATSA-3) with a HFTA-1KJ2 Transmitter.

## ON MMXA-2A

### 1. Verify or add the following:

- a, To S105D (Rear) lug 12 wiper add a wire to A4888/PC608 term 22
- b, Add IN645 (CR203) between term 22 and 21 of A4888/PC608 (Direction shown on CK2067 sheet 2)
- c, A resistor (RC07GF152J) R213 to S105D rear lug 1 to lug 2
- d, A resistor (RC07GF102J) R214 to S105D rear lug 2 to lug 3
- e, A resistor (RC07GF681J) R215 to S105D rear lug 3 to lug 4
- f, A resistor (RC07GF511J) R216 to S105D rear lug 4 to lug 5
- g, A resistor (RC07GF221J) R217 to S105D rear lug 5 to lug 6
- h, A resistor (RC07GF431J) R212 to S105D rear lug 7 to lug 8
- i, A resistor (RC07GF241J) R211 to S105D rear lug 8 to lug 9
- j, A resistor (RC07GF201J) R210 to S105D rear lug 10 to lug 11
- k, Add a wire from S105D rear lug 10 to A4888/PC608 term 34
- l, Add a wire from S105D rear lug 6 to term 32

Refer to schematic diagram CK2067 (sheet 2) supplied to clarify all above modifications.

## INTERFACE P2109

- a, Remove wires going to P2109 E, F
- b, Remove gnd from pin W and place on pin U
- c, Add wires W, X, Y, Z to P2109 refer to CA1759 breakout area 9

## REAR CONNECTION OF MMXA-2A, P2106

- a, Remove wires going to pin A and pin B
- b, Add wires to pins A, B, L, N

## INTERFACE J5

Remove gnd from pin W and place on pin U  
Add line items 43, 44, 59, 60 W, X, Y, Z to J5 as identified on CA1759 breakout 4.  
Add gnd lines, items 56, and 57 to chassis gnd position conveniently.

## INTERFACE J8

Add line item 58 to existing line on J8 pin-D identified on CA1759 breakout area 8.

# TMC SPECIFICATION

NO. Kit 401

REV: 1

COMPILED:

CHECKED:

APPD:

SHEET

2

OF

2

TITLE: ANTENNA TUNER INSTALLATION

## AP-152 P2014

Add line items 54, and 55 H, and I to existing lines on P2014 pins H and I refer to CA1759 breakout 7.

## AX5130 P2009

Add line items 52 and 53 to P2009 T and U  
Add line item 51 to existing line on V of P2009  
Refer to CA1759 Breakout 6

## TLAA-1K P2006

Add line items 41, 42, 45, 46, 47, 48, 49, 50 to P2006 pin 3, 2, Z, Y, X, W, V, U.  
Refer to breakout 5 on CA1759

## RAK138-1A

(AX5175) Antenna Tuner link-up wiring  
On AX5175

Mate P104 to J104  
Mate P103 to J103

On Interface

Install J9,  
J9 will accept external cable described in antenna tuner technical manual, Page 2-3/2-4, Figure 2-2.