

FIELD SERVICE NOTE

F/S/N Number

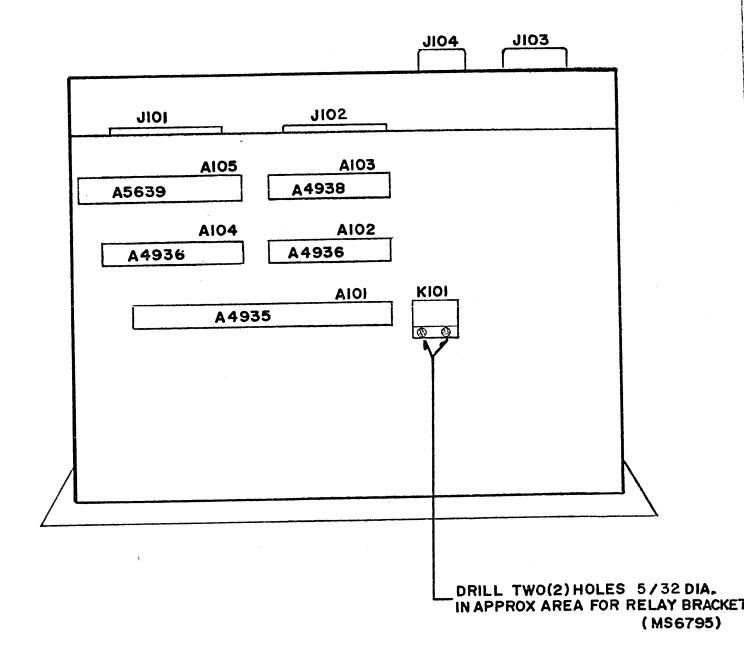
140-040303-0

Date 1 OCT 1978

ATS-3 RETROFIT KIT

KIT-426

AX5175 (TOP VIEW)



TI	AC SPECIFICATI	ON	NO.
REV:			
COMPILED:	CHECKED:	APPD:	SHEET 3 OF 12
TITLE:			

PURPOSE:

TO UP-DATE THE (AUTOMATED ANTENNA TUNER) ATSA-3 THE FOLLOWING MOD-IFICATIONS MUST BE PERFORMED.
A, AX5175 (CONTROL)

A4936 (A102/A104)

1. Printed circuit board A4936 REF CK2054-C, REF DRAWING A4936

CK2054 must be used to perform the electrical modifications on this printed circuit board. The following components must be ADDED, DELETED or CHANGED.

ADD R29 RC07GF471J R30 RC07GF332J R31 RC07GF242J R32 RC07GF223J Q7 2N2222 C15 CC131-48 C16 CC131-48

Add a wire from the junction of R31 and R32 to the junction of R16 and R19.

Add a wire from C15 (2.2uf) to the junction of CR8 and R26.

Add a wire from connector Pin (B) to the junction of CR8 and R26.

DELETE C3 220uuf
C9 220uuf
C4 .01uf
C11 470uuf
R5 3.3K
R13 1.5K
R27 560 ohms

Delete at Z2, from Pin 5 $\underline{\text{C3}}$, $\underline{\text{220uf}}$ Delete at Z2, from Pin 8 $\underline{\text{R5}}$, $\underline{\text{3.3K}}$ Delete at Z2, from Pin 1 $\underline{\text{C4}}$, $\underline{\text{.01uf}}$ Delete at Z1, from Pin 5 $\underline{\text{C9}}$, $\underline{\text{220uuf}}$ Delete at Z1, from Pin 8 $\underline{\text{R13}}$, $\underline{\text{1.5K}}$ Delete at Z1, from Pin 1 $\underline{\text{C11}}$, $\underline{\text{470uuf}}$ Delete at the junction of $\underline{\text{CR8}}$ and $\underline{\text{R26}}$, $\underline{\text{R27}}$ 560 ohms

CHANGE

Change R26 from a 1K Resistor to RC07GF103J Change R9 from a 1K REsistor to RC07GF562J Change R28 from a 56 ohm Resistor to RC32GF101J Change Z1 from NW156 (UA709) to UA741 Change Z2 from NW156 (UA709) to UA741 Change R8 from a 47K Resistor to RC07GF823J

·	 TN	M(S	SP	EC	CIF	-10	CA	TI	10	1			NO.					
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TITLE:														 					

A5639 (A105)

2. Printed circuit board A5639 Ref. CK2128-A, Ref. Drawing A5639

Remove A4937 (A105) and replaced directly with A5639.

A4935 (A101)

3. Printed circuit board A4935 Ref. CK2052-D, Ref. Drawing A4935

CK2052 must be used to perform the electrical modifications on this printed circuit board. The following components must be DELETED or CHANGED.

DELETE

R20 1.5K R19 27K R18 5K R17 12K C7 .001uf C8 .001uf

Delete at Z1, from Pin 5 $\underbrace{C8,.001}_{C7,.001}$ Delete at Z1, from Pin 1 $\underbrace{C7,.001}_{R20,1.5K}$ Delete at Z1, from Pin 1 $\underbrace{R20,1.5K}_{R18,5K}$ (VAR) R19, 27K Delete at Z1, form Pin 7 $\underbrace{R18,5K}_{R17,12K}$

CHANGE

Change Z1 from NW156 (UA709) to UA741

<u>A4938</u> (A103)

4. Printed circuit board A5639 Ref. CK2055-D, Ref. Drawing A4938.

CK2055 must be used to perform the electrical modifications on this printed circuit board. The following components must be ADDED, DELETED, or CHANGED.

ADD C17 CE105-50-25 CR14 1N645 R56 RC07GF105J

Add C17,(50uf at 25V) at the junction of Q11 (2) and R35 to the junction of Q11 (1) and CR4 Add CR14 (1N645) and R56 (1 meg) parallel at the junction of Q7

M 3PEC 1 2M 9.55-AIN3.

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TITLE:			 							 	 	 			 			

and C6 to the junction of R43, and Q13 (3).

DELETE

R14 1.5K C4 .001 u { R15 12K R51 5K (VAR) R16 27K C12 .001uf R25 250K (VAR)

Delete at Z2, from Pin 5 $\underline{\text{C12 .001uf}}$ Delete at Z2, from Pin 8 $\underline{\text{R14 1.5K}}$ Delete at Z2, from Pin 1 $\underline{\text{C4 .001uf}}$ Delete at Z2, from Pin 7 $\underline{\text{R15 12K}}$, R51 5K (VAR), R16 27K Delete at the junctions of CR12 and Q7, R25 250K (VAR)

CHANGE

R28 from a 1K Resistor to RC07GF222J R42 from a 2.2K Resistor to RC07GF472J R48 from a 3.3K, 1W Resistor to RC42GF152J R46 from a 2.2K Resistor to RC07GF472J R47 from a 1K Resistor to RC07GF392J Z2 from NW156 (UA709) to UA741

A4939 (MOTHER BOARD)

Printed circuit board A4939 REF. CK2056-C, REF. DRAWING A4939

CK2056 must be used to perform the electrical modifications on this printed circuit board. The following components must be ADDED.

ADD

C19 .luf C20 .luf C21 5.5 uf (NP)

Add C19 (CCl31-39)from connector
J101 Pin 14 to ground.
Add C20 (CCl31-39)from connector
J102 Pin 9 to ground.
Add C21 (5.5uf Approx) CX118P5R5N3OC1 from XA102 connector socket
Pin (H) to ground.
Add a wire LWC26(7)U1 from connector socket J102 Pin 8 to connector
socket XA103 Pin K.
Add a wire LWC26(7)U1 from connector J101 Pin (H) to socket XA105
Pin (6).

TMC FORM SPEC 1

2M 9-65-AINE

TN	IC SPECIFICATION	ON	NO.
REV:			
COMPILED:	CHECKED:	APPD:	SHEET 6 OF 12
TITLE:			

A4946 (A106)

Printed circuit board A4946
 REF. CK2051-E, REF. DRAWING A4946

A4946 printed circuit board's schematic is part of CK2051-E.

CHANGE R1 1.5K to RC32GF332J

A4945 (A107)

6. Printed circuit board A4945 REF. DWG. CK2051-E, REF. DRAWING A4945

A4945 printed circuit board's schematic part of CK2051-E.

CHANGE R1 1.5K to RC42GF272J

7. AX5175 (CONTROL UNIT)

to J102 Pin 15.

CK2051-E must be used to perform the electrical modifications.

ADD K101 RL156-14 With Socket/Bracket CR104 1N645 RC32GF821J

REMOVE the wire from connector J103 Pin X to terminal 5 of T103. $\overline{\rm ADD}$ a No. 24 gauge (LWC24(7)U2) wire from J103 Pin X to K101 terminal 8 $\overline{\rm ADD}$ a No. 24 gauge (LWC24(7)U3) wire from K101 terminal 9 to T103 terminal 5. $\overline{\rm ADD}$ a Resistor (RC32GF821J) from K101 terminal 10 to ground. $\overline{\rm ADD}$ a Diode (1N645) across K101 terminals 1 and 4. $\overline{\rm ADD}$ a No. 24 gauge (LWC24(7)U4) wire from K101 terminal 4 to connector

socket J102 Pin 8.

Add a No. 24 gauge (LWC24(7)U5) wire from connector J104 - Pin Z

 \overline{ADD} a No. 24 gauge (LWC24(7)U6) wire from J104 Pin X to J101 Pin F. \overline{ADD} a No. 24 gauge (LWC24(7)U7) wire from J104 Pin Y to J101 Pin H.

THE FORM SPEC 1

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TITLE:						

B, AX5176 (TUNER)

1, CAPACITOR ASSEMBLY (DRAWING AX5189)

Items 37, 43 and 45 must be removed and holes must be drilled and taped for a second set screw. This set screw must seat 45° apart from the existing set screw.

The 1K resistor (pot) which is seated on one of the gears and it's associated assembly must be removed. This is accomplished by removing (MS6464) the plate that holds this assembly in place. This will leave a $1\frac{1}{4}$ inch hole and the two threaded nuts. At the wrom gear compartment a shaft extends (approx) 3/4 inch with a sleeve and two (2) set screws that act as a stop against two $\frac{1}{2}$ inch terminals. Remove the sleeve and the two terminal stops, leaving a bare 3/4 inch shaft.

The gear stop assembly is to be assembled as per drawing AX5179 Detail "C". This assembly will seat in the vacated $1\frac{1}{4}$ inch hole and fastened via two threaded nuts which were left vacated with the removal of the 1K resistor (pot) assembly. (All parts are supplied)

When Detail "C" is seated correctly and tightened, align the three (3) gears, tighten six (6) set screws two per gear and seal.

Important! Use "Glyptal" to seal (supplied).

At the worm gear compartment, assemble a RV4NAYSA102 pot as per AX5179Detail "D" (drawing and parts supplied)

2, COIL ASSEMBLY (DRAWING AX5178)

Items 29, 30 and 9 must be removed and holes must be drilled and taped for a second set screw. This set screw must seat 45° apart from the existing set screw.

The 1K Resistor (pot) which is seated on one of the gears and it's associated assembly must be removed. This is accomplished by removing (MS6464) the plate that holds this assembly in place. This will leave a $1\frac{1}{4}$ inch hole and two threaded nuts. It may be necessary to remove the two (2) nuts if they seat on the inside of the metal work (facing the coil).

RV117-2-102 must now be re-assembled on MS6585, a detailed drawing of the entire assembly is supplied. Using AX5178, the parts supplied and the detailed drawing the assembly now can be completed and mounted in place. When the assembly is fastened securely, align the three (3) existing gears, tighten and seal with (Glyptal supplied).

THE FORM SPEC 1

С,

MMX() REF. CK2067

If an MMX() Exciter is used in conjunction with an antenna tuning system (ATSA-3). The MMX() switching must be modified. Refer to CK2067 Sheet 2 of 2.

A note appears on CK2067 Sheet 2 of 2 defining the procedure that must be used for each series of transmitters (GPT) or (HFTA) series.

A wire may exist at pin Z of J119 this wire must be removed and soldered to pin P of J119. This operation is performed internal to the MMX() and will free pin Z.

A minimum amount of external wiring must be performed external to the units to ensure a proper systems operation. The following paragraph will deal with wiring on (HFTA) series transmitter and a (GPT) series transmitter.

(HFTA) SERIES TRANSMITTER

- a, Two wires must be added to the HFTA system to facilatate the ATSA-3 Modifications.
- 1, a wire LWC24(7)U4 from the connector that mates with J104 of the ATSA-3. (ATSA-3) J104-X to (MMX) J119-X (2. -2.999)
- 2, a wire LWC24(7)U5 from the connector that mates with J104 of the ATSA-3. (ATSA-3) J104-Y to (MMX) J119-Z (2.3-2.5999)
 - b. (GPT) SERIES TRANSMITTER

Four wires must be added to the GPT system to facilatate the ATSA-3 Modifications. (Reference CA 1828 supplied)

1, a wire LWC24(7)U2 from the connector that mates with J104 of the ATSA-3.

(ATSA-3) J104-J to (TMA) Term 3 (RF Trig Monitor)

2, a wire LWC24(7)U3 from the connector that mates with J104 of the ATSA-3.

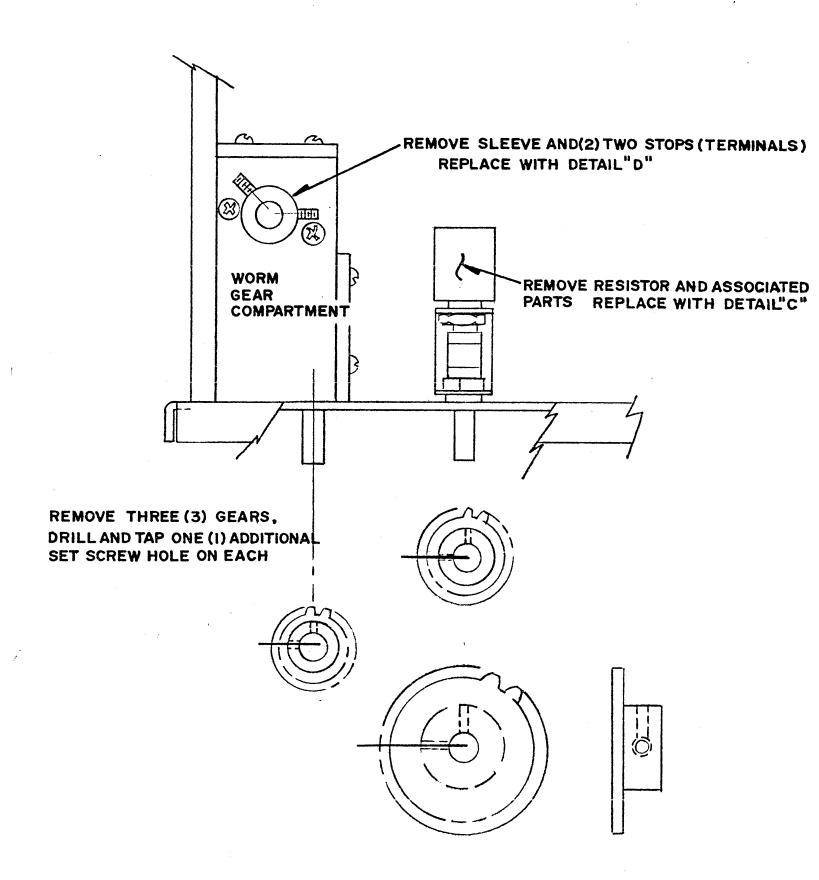
(ATSA-3) J104-Z to (TMA) Term 2 (FAULT)

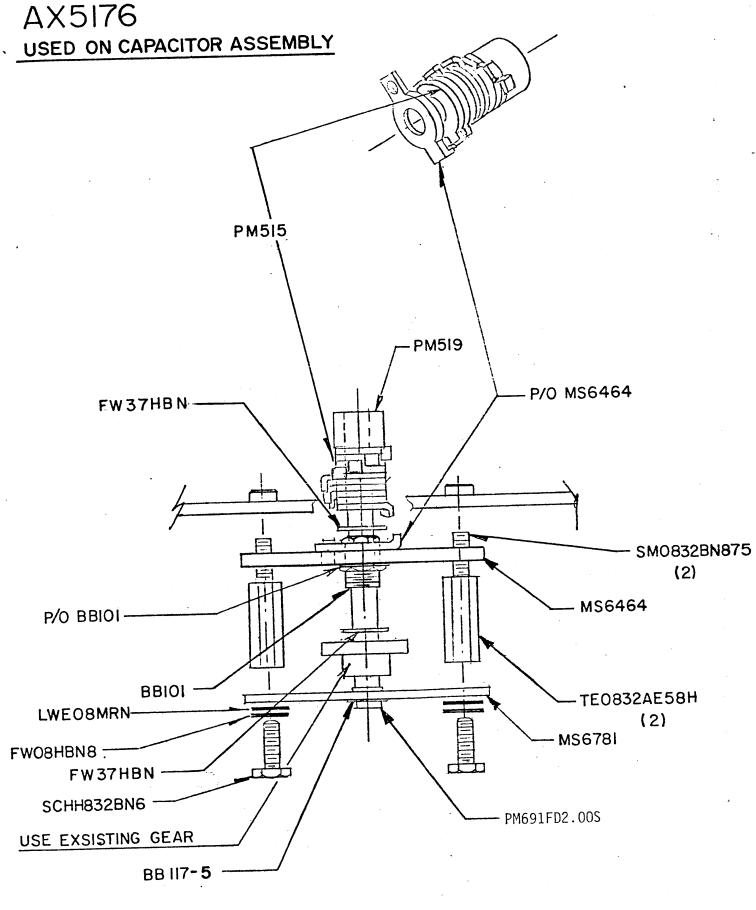
3, a wire LWC24(7)U4 from the connector that mates with J104 of the ATSA-3.

(ATSA-3) J104-X to (MMX) J119-X (2.-2.999)

4, a wire LWC24(7)U5 from the connector that mates with J104 of the ATSA-3.

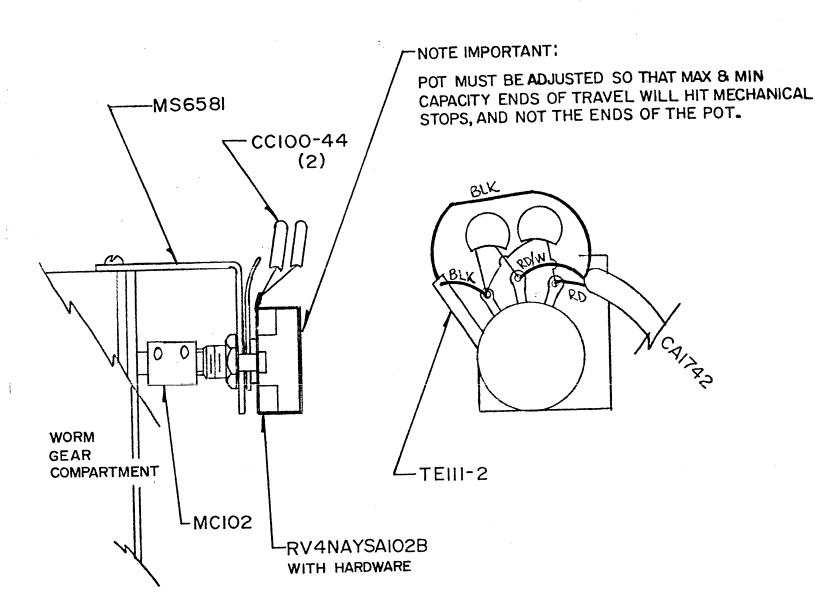
(ATSA-3) J104-Y to (MMX) J119-Z (2.3 - 2.5999)





DETAIL"C"

AX5176 USED ON CAP. ASSEMBLY



DETAIL"D"

MODEL-AX5175 AX5176

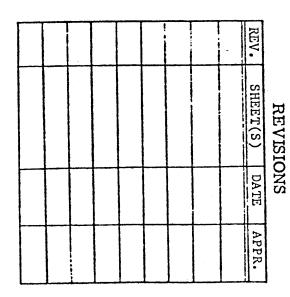
FOR

MODEL KIT426

TITLE **EUTOMATED ANJENNA TUNER**

(ATSA-3) UP-DATING KIT

LAST SYMBOLS



SUPPORTING LISTS

CONSISTS OF

ENCLOSED ARE COMPONENTS AND DRAWING NUMBERS NEEDED FOR UP-DATING AN (ATSA-3).

MISSING SYMBOLS

CEA DIINCHED	CHECKED	COMPILED
		RU

ENGINEERING JOB ORDER

တ FOR SPECIAL NOTES, REFER TO S1200.

MATERIAL LIST

A5639 CC131-48 CC131-48 CC131-48 CAP, FXD CAP, FXD, ELEC CX118P5F5N30C1 CAP, FXD, ELEC CAP, FXD, (NP) CAP, FXD, (NP) CAP, FXD, (NP) CAP, FXD, (NP) A4938 CX118P5F5N30C1 CAP, FXD, COMP. RC07GF471J RES, FXD, COMP. RC07GF223J RC07GF223J RC07GF223J RC07GF562J RC07GF562J RES, FXD, COMP. RC07GF101J RES, FIX, COMP. RC07GF105J RC07GF222J RES, FIX, COMP. A4936 RC07GF222J RES, FIX, COMP. A4938 RC07GF472J RES, FIX, COMP. A4938 RC07GF472J RES, FIX, COMP. A4938	ASS'Y, PRE-POSITION CAP, FXD CAP, FXD, ELEC CAP, FXD, (NP) BRACKET, MTG RELAY RES, FXD, COMP. RES, FXD, COMP. RES, FXD, COMP. RES, FIX, COMP.	PART NUMBER	AX5175 DESCRIPTION	USED ON	QTY.	QTY PER UNIT	REFERENCE SYMBOLS
-48 -50-25 -60-25 -60-25 -A3 -A3 -A3 -A3 -A3 -A3 -A3 -A	-48 CAP, FXD CAP, FXD, ELEC CAP, FXD, (NP) -43 BRACKET, MTG RELAY RES, FXD, COMP. RES, FIX, COMP.	A5639	ASS'Y, PRE-POSITION	AX5175		H	1
CAP, FXD, ELEC CAP, FXD, (NP) CAP, FXD, (NP) CAP, FXD, (NP) BRACKET, MTG RELAY RES, FXD, COMP. RES, FXD, COMP. RES, FXD, COMP. RES, FIX, COMP.	CAP, FXD, ELEC CAP, FXD, (NP) CAP, FXD, (NP) CAP, FXD, CAP, ES, FXD, CAP, ES, FXD, COMP. RES, FXD, COMP. RES, FIX, COMP.	CC131-48	CAP, FXD	A4936		4	4 20
CAP, FXD, (NP) CAP, FXD, BRACKET, MTG RELAY RES, FXD, COMP. RES, FXD, COMP. RES, FXD, COMP. RES, FIX, COMP.	CAP, FXD, (NP) CAP, FXD, BRACKET, MTG RELAY RES, FXD, COMP. RES, FXD, COMP. RES, FXD, COMP. RES, FIX, COMP.	CE105-50-25		A4938		⊷	ы
BRACKET, MTG RELAY RES, FXD, COMP. 332J RES, FXD, COMP. 242J RES, FXD, COMP. 223J RES, FXD, COMP. 103J RES, FIX, COMP.	BRACKET, MTG RELAY RES, FXD, COMP. 332J RES, FXD, COMP. 2223J RES, FXD, COMP. 223J RES, FIX, COMP. 562J RES, FIX, COMP.	CX118P5R5N3OC1	CAP, FXD, (NP)	A4939		-	н
BRACKET, MTG RELAY RES, FXD, COMP. RES, FIX, COMP.	BRACKET, MTG RELAY RES, FXD, COMP. RES, FXD, COMP. RES, FXD, COMP. RES, FXD, COMP. RES, FIX, COMP.	CC100-43	CAP, FXD,	A4939		21	1 1 1
RES, FXD, COMP. RES, FXD, COMP. RES, FXD, COMP. RES, FIX, COMP.	RES, FXD, COMP. RES, FXD, COMP. RES, FXD, COMP. RES, FIX, COMP.	MS6795	BRACKET, MTG RELAY	AX5175		`	, 1
RES, FXD, COMP. RES, FXD, COMP. RES, FIX, COMP.	RES, FXD, COMP. RES, FXD, COMP. RES, FIX, COMP.	RCO7GF471J	RES, FXD, COMP.	A4936		2	2
RES, FXD, COMP. RES, FIX, COMP.	RES, FXD, COMP. RES, FIX, COMP.	RC07GF332J	RES, FXD, COMP.	A4936		8	2
RES, FXD, COMP. RES, FIX, COMP.	RES, FXD, COMP. RES, FIX, COMP.	RC07GF242J	RES, FXD, COMP.	A4936		N	N
RES, FIX, COMP.	RES, FIX, COMP.	RCO7GF223J	RES, FXD, COMP.	A4936		2	2
RES, FIX, COMP. RES, FIX, COMP. RES, FIX, COMP. RES, FIX, COMP.	RES, FIX, COMP. RES, FIX, COMP. RES, FIX, COMP. RES, FIX, COMP.	RC07GF103J		A4936		, N	2 2
RES, FIX, COMP. RES, FIX, COMP. RES, FIX, COMP.	RES, FIX, COMP. RES, FIX, COMP. RES, FIX, COMP.	RCO7GF562J	RES, FIX, COMP.	A4936		N	2
RES, FIX, COMP. RES, FIX, COMP.	RES, FIX, COMP. RES, FIX, COMP.	RCO7GF101J	RES, FIX, COMP.	A4936		N	2
RES, FIX, COMP.	RES, FIX, COMP.	RCO7GF105J	FIX,	A4938			ך
RES, FIX, COMP.	RES, FIX, COMP.	RCO7GF222J		Ã4938		 -	P
		RC07GF472J	RES, FIX, COMP.	A4938		2	2 1

PART NUMBER RC07GF152J	DESCRIPTION RES, FIX, COMP	USED ON A4938	QTY .	QTY. PER UNIT	REFERENCE SYMBOLS
RC07GF152J	FIX,	A4938	هـــ نـــ	.	R48 R47
RC32GF332J	FIX,	A4946	,	<u></u>	R1
RC42GF272J	RES, FIX, COMP	A4945	ь		R1
RC32GF821J	RES, FIX, COMP	AX5175	⊷	د و	R114
TS171-1 CU163	SOCKET RELAY RETAINER, RELAY	AX5175 AX5175	μμ	ب ب	XK101
SCBP0632SR	SCREW, ½ INCH LONG NUTS WASHERS, LOCK	AX5175 AX5175 AX5175	NNN	N N N	
RL156-14	RELAY,	AX5175	بــ ،	μ.	K101
DRILL BIT FOR	13/64 DIA. HOLE				
2N2222	TRANSISTOR	A4936	N	N	Q7,Q
1N645	DIODE	A4938 AX5175	Ν		CR14 CR104
MFG/PN UA741	NETWORK, OP AMP	A4936 A4936 A4935 A4938		P P 8 8	71 72 71 72
LWC24(7)U2	WIRE, INSUL 24 INCHS	AX5175			
LWC24(7)U3	WIRE, INSUL 24 INCHS	AX5175			

							وساو سيجيري				
PART NUMBER	LWC24(7)U4		LWC24(7)U5	LWC24(7)U6	LWC24(7)U7	LWC26(7)U1	IMPORTANT!	LIST OF DRAWINGS NEEDED	A4936 A4938 A5639 A4939 A4935 A4946 A4945	CK2054 CK2128 CK2052 CK2055 CK2056 CK2051	
DESCRIPTION	WIRE, INSUL 24 INCHS	TNCIII 3/	WIRE, INSUL 24 INCHS		DED TO BE SENT TO COMPLETE MO	ASS'Y DRAWING	SCHEMATIC, (A102, A104) SCHEMATIC (A105) SCHEMATIC (A101) SCHEMATIC (A103) SCHEMATIC (A103) SCHEMATIC (OVERALL)				
USED ON	AX5175	AX5175	2	AX5175	AX5175	A4939		DIFICATIONS			
QTY.	,										
QTY. PER UNIT											
REFERENCE SYMBOLS								, , , , , , , , , , , , , , , , , , , 			
SPECIAL NOTES REFER TO S 1200											

MODEL-

FOR

TITLE MODEL P/of KIT 426

MODIFICATIONS FOR MMX() & SYSTEMS

LAST SYMBOLS

CONSISTS OF SUPPORTING LISTS

REV. SH. SHEET(S) DATE 3-23-7 APPR.

REVISIONS

CHECKED

KEY PUNCHED

COMPILED

ENGINEERING JOB ORDER

MISSING SYMBOLS

MATERIAL LIST

					-			 		
PART NUMBER CK2067	CK2067	1N645	RC07GF511J RC07GF122J	LWC24(7)U2	LWC24(7) U3	CA 1828	(USE ONLY WITH GPT			
DESCRIPTION (DRAWING, SCHEMATIC)	(DRAWING, SCHEMATIC) (2 SHEETS)	DIODE,	RESISTOR RESISTOR	(6 FEET)	(6 FEET)	CABLE, HARNES				
USED ON	MMX()	MMX()	MMX()	(HFTA SEPIES)	(HFTA SERIES)	(GPT SERIES)				
QTY.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	œ	ىر بىر							
QTY PER UNIT)	œ	بر بر							
REFERENCE SYMBOLS		CR213, CR212	R218 R219							
SPECIAL NOTES REFER TO \$ 1200										

PAGE / OF /

MODEL-

FOR

MODEL P/OF KIT 426

TITLE MODIFICATIONS FOR AX5176
CAPACITOR ASSEMBLY

LAST SYMBOLS

CONSISTS OF SUPPORTING LISTS

SHEET(S) DATE APPR.

REVISIONS

KEY PUNCHED

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COMPILED K.U.

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MISSING SYMBOLS

တ FOR SPECIAL NOTES, REFER TO S1200.

TMC FORM MLT-3P (2-68)

MATERIAL

PART NUMBER	COMPONENTS	DRAWING	BB117-5	BB101	FW37HBN
DESCRIPTION	FOR (CAPACITOR ASSEMBLY)	(AX5189 DRAWING)	NYLON, BEARING	BUSHING, THREADED WITH HARDWARE.	FLAT, WASHER
USED ON			AX5176	AX5176	AX5176
QTY.			ш	₩	2
PER UNIT			-	د ــر	72
REFERENCE SYMBOLS					
SPECIAL NOTES REFER TO S 1200					

MS6781

PLATE, BEARING

PLATE, SHAFT, SUPPORT

AX5176

AX5176

AX5176

LOCK, WASHER

LWI25MRN

LWE08MRN

FW08HBN8

FLAT WASHER

AX5176

AX5176

AX5176

LOCK, WASHER

MS6464-2

PM519

SM0832BN875

TE0832AE58H

SPACER, THREADED

THREADED STUD

AX5176

AX5176

AX5176

PM691FF2.00S

SHAFT FLAT

CAP, SHAFT

WR100-3

DRILL NO. 36

DRILL FOR ALLEN SCREW

AX5176

AX5176

AX5176

σ

ALLEN WRENCH

ALLEN SCREW

SLHC0632SP5

MATERIAL LIST

PART	ТАР	GLY 120	CC1	MC102	RV4	TE:	MS
PART NUMBER	TAP 6-32	GLYPTAL 1201 RED ENAMAL	CC100-44	.02	RV4NAYSA102B WITH HARDWARE	TE111-2	MS6581
DESCRIPTION	TAP FOR ALLEN SCREW	(GENERAL ELEC)	CAP, FXD	COUPLER	RES, VAR COMP	GND, LUG	BRACKET, RESISTOR
USED ON	AX5176	AX5176	AX5176	AX5176	AX5176	AX5176	AX5176
QTY.	⊢	×	2	·	H		
QTY. PER UNIT	ш	×	2	 -	ب		 .
REFERENCE SYMBOLS							
SPECIAL NOTES REFER TO S 1200							

PAGE 2 OF 2

MODEL-

FOR

TITLE MODEL P/0F KIT 426

MODIFICATIONS FOR AX5176 COIL ASSEMBLY

LAST SYMBOLS

CONSISTS OF SUPPORTING LISTS

REV. SHEET(S) DATE APPR.

REVISIONS

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ENGINEERING JOB ORDER
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MISSING SYMBOLS

FOR SPECIAL NOTES, REFER TO S1200.

THC FORM MLT-3P (2-68)

PART NUMBER DESCRIPTION USED ON OTY. PART PRINCE SYMBOLS REFERNOE REFER TO UNIT ARSITO WIT OTY. PART SYMBOLS REFERNOE REFER TO UNIT REFERNOE REFER TO UNIT ARSITO WIT OTY. PART SYMBOLS REFERNOE REFER TO UNIT REFER TO UNIT REFER TO UNIT ARSITO WIT	1		AX5176 (TUNER)					SPFCIAI
FOR (COIL ASSEMBLY) (AX5178 DRAWING) BUSHING, THREADED WITH HARDWARE WASHER FLAT WAS176 WASHER FLAT WAS176 WASHER FLAT WAS176 W	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PART NUMBER	DESCRIPTION	USED ON	QTY.	PER UNIT	REFERENCE SYMBOLS	NOTES REFER TO \$1200
CANSIT'S DRAMING)		COMPONENTS		AX5176				
CREW MASHER FLAT AX5176 3 3 CCREW MASHER FLAT AX5176 4 4 SCREW MUT (6032 SCREW) AX5176 4 4 SCREW NUT (8-32 SCREW) AX5176 4 4 SCREW NUT (8-32 SCREW) AX5176 4 4 GEAR AX5176 1 1 BRACKET, RES AX5176 1 1 PLATE, GEAR AX5176 1 1 22.005 SHAFT, AX5176 1 1 BEARING SEE P/OF CB147 AX5176 1 1 A62-8 PIN, AX5176 1 1 A62-8 PIN, AX5176 1 1 A62-8 STANDOFF, AX5176 1 1 A1 1 1 1 A62-8 ALLEN MRENCH #6 AX5176 1 1		DRAWING BB101	(AX5178 DRAWING) BUSHING, THREADED WITH HARDWARE	AX5176	ب	ب		
#8 SCREW #8 SCREW WASHER FLAT #6 SCREW NUT (6032 SCREW) NUT (8-32 SCREW) GEAR 205-18 GEAR GEAR BRACKET, RES BRACKET, RES SHAFT, SHEF, BEARING SEE P/OF CB147 D6322AE48H ALLEN SCREW AX5176 A		FW37HBN		AX5176	ω	ယ		
#6 SCREW #8 SCREW NUT (6032 SCREW) AX5176 #8 SCREW NUT (8-32 SCREW) AX5176 AX5176 AX5176 AX5176 AX5176 AX5176 BRACKET, RES BRACKET, RES PLATE, GEAR AX5176 AX5176 I I I I I I I I I I I I I		#8	WASHER FLAT	AX5176	4	4	•	
#6 SCREW NUT (6032 SCREW) AX5176 4 4 #8 SCREW NUT (8-32 SCREW) AX5176 4 4 09-2 09-2 GEAR GEAR AX5176 1 1 10 585 BRACKET, RES BRACKET, RES PLATE, GEAR AX5176 1 1 11 91FF2.005 SHAFT, GEE P/OF CB147 AX5176 1 1 11 12 13 14 15 15 15 15 16 17 17 17 17 18 18 18 18 18 18		#6	WASHER FLAT	AX5176	8	8		
#8 SCREW NUT (8-32 SCREW) AX5176 4 4 09-2 GEAR GEAR AX5176 1 1 1 585 BRACKET, RES BRACKET, RES AX5176 1 1 1 91FF2.005 SHAFT, HER, BEARING SEE P/OF CB147 AX5176 1 1 1 1 1 AX5176 1 1 1 1 1 1 1 1 1 1 1 1 1 1		#6	NUT (6032 SCREW)	AX5176	4	4		
2 GEAR AX5176 1 1 18 GEAR AX5176 1 1 BRACKET, RES AX5176 1 1 PLATE, GEAR AX5176 1 1 F2.005 SHAFT, AX5176 1 1 BEARING SEE P/OF CB147 AX5176 1 1 062-8 PIN, AX5176 1 1 AE48H STANDOFF, AX5176 1 1 32SPS ALLEN SCREW AX5176 1 1 32SPS ALLEN WRENCH #6 AX5176 3 3		#8	(8-32	AX5176	4	4		
18 GEAR AX5176 1 1 BRACKET, RES AX5176 1 1 F2.005 PLATE, GEAR AX5176 1 1 , BEARING SEE P/OF CB147 AX5176 1 1 062-8 PIN, AX5176 1 1 AE48H STANDOFF, AX5176 1 1 32SPS ALLEN SCREW AX5176 1 1 32SPS ALLEN WRENCH #6 3 3		GR109-2	GEAR	AX5176	,	1—1		
BRACKET, RES AX5176 1 1 PLATE, GEAR AX5176 1 1 PLATE, GEAR AX5176 1 1 ABAFT, AX5176 1 1 BEARING SEE P/OF CB147 AX5176 1 1 062-8 PIN, AX5176 1 1 AE48H STANDOFF, AX5176 1 1 ALLEN SCREW AX5176 1 1 32SPS ALLEN WRENCH #6 3 3		GR205-18	GEAR	AX5176	ب ــــ	ب		
F2.005 SHAFT, SHAFT, AX5176 1 1 1 1 1 1 1 1 1 1 1 1 1		MS6585		AX5176	ن ـــا			
2.005 SHAFT, AX5176 1 1 BEARING SEE P/OF CB147 AX5176 1 1 62-8 PIN, AX5176 1 1 E48H STANDOFF, AX5176 1 1 2SPS ALLEN SCREW AX5176 1 1 AX5176 5 1 1 AX5176 5 1 1 AX5176 6 5 6		MS6584		AX5176	ب ــــ	 -		
BEARING SEE P/OF CB147 AX5176 1 1 62-8 PIN, AX5176 1 1 E48H STANDOFF, AX5176 1 1 2SPS ALLEN SCREW 6 6 ALLEN WRENCH #6 3 3		PM691FF2.005	SHAFT,	AX5176	 3	 -		
62-8 PIN, AX5176 1 1 E48H STANDOFF, AX5176 1 1 2SPS ALLEN SCREW 6 6 6 ALLEN WRENCH #6 3 3				AX5176	—			
E48H STANDOFF, AX5176 1 2SPS ALLEN SCREW 6 ALLEN WRENCH #6 3		PN59062-8	PIN,	AX5176	دز			
2SPS ALLEN SCREW 6 ALLEN WRENCH #6		TE0632AE48H	STANDOFF,	AX5176	 -	<u></u>		
ALLEN WRENCH #6		SLHC0632SPS	ALLEN SCREW		<u>ه</u>	<u>ه</u>		
		WR100-3			ω	ω		