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SHEET 1 OF 9 SHEETS

RECEIVING SET, RADIO AN/FRR-502		RADIO FREQUENCY TUNER TN-5010/FRR-502			
Ref. Symbol	RCAF Reference Number	Name and Description	Function	Manufacturer, Designation	Contractor or Government Draw.or Spec.
C500	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, $\pm 20\%$ , 500 vdcw, disc type.	AVC Decoupling	TMC CC-100-16 CDC TM5S1 (CCK05W103Z)	JCNAAF-C-26
C501	10EC/40568	CAPACITOR: variable, air dielectric, four sect., 10-135 uuf ea. sect., 500 vdcw.	Frequency Tuning	TMC CB-101 RCC800284	
C502	10EC/34692	CAPACITOR: variable, ceramic, 3-12 uuf, 500 vdcw.	High Frequency Band Adjustment	CV11A120	JAN-C-81
C503	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, $\pm 20\%$ 500 vdcw, disc type.	Cathode Bypass	TMC CC-100-16 CDC TM5S1 (CCK05W103Z)	JCNAAF-C-26
C504	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, $\pm 20\%$ , 500 vdcw, disc type.	Screen Bypass	TMC CC-100-16 CDC TM5S1 (CCK05W103Z)	JCNAAF-C-26
C505	(10EC/37224)	CAPACITOR: fixed, ceramic, 150 uuf, $\pm 10\%$ , 500 vdcw.	Plate Tank	TMC CC-101-2 ERE GP2K151K (CCK22W151Z)	JCNAAF-C-26
C506		NOT USED			
C507	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, $\pm 20\%$ , 500 vdcw, disc type.	Plate Decoupling	TMC CC-100-16 CDC TM5S1 (CCK05W103Z)	JCNAAF-C-26
C508	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, $\pm 20\%$ , 500 vdcw, disc type.	AVC Decoupling	TMC CC-100-16 CDC TM5S1 (CCK05W103Z)	JCNAAF-C-26
C509	10EC/34692	CAPACITOR: variable, ceramic, 3-12 uuf, 500 vdcw.	High Frequency Band Adjustment	CV11A120	JAN-C-81

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RECEIVING SET, RADIO AN/FRR-502		RADIO FREQUENCY TUNER TN-5010/FRR-502			
Ref. Symbol	RCAF Reference Number	Name and Description	Function	Manufacturer, Designation	Contractor or Government Draw, or Spec.
C510	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, ± 20%, 500 vdcw, disc type.	Cathode Bypass	TMC CC-100-16 CDC TM5S1 (CCK05W103Z)	JCNAAF-C-26
C511	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, ± 20%, 500 vdcw, disc type.	RF Screen Bypass	TMC CC-100-16 CDC TM5S1 (CCK05W103Z)	JCNAAF-C-26
C512	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, ± 20%, 500 vdcw, disc type.	Plate Decoupling	TMC CC-100-16 CDC TM5S1 (CCK05W103Z)	JCNAAF-C-26
C513	10EC/34692	CAPACITOR: variable, ceramic, 3-12 uuf, 500 vdcw.	High Fre- quency Band Adjustment	CV11A120	JAN-C-81
C514	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, ± 20%, 500 vdcw, disc type.	Filament Bypass	TMC CC-100-16 CDC TM5S1 (CCK05W103Z)	JCNAAF-C-26
C515	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, ± 20%, 500 vdcw, disc type.	Cathode Bypass	TMC CC-100-16 CDC TM5S1 (CCK05W103Z)	JCNAAF-C-26
C516	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, ± 20%, 500 vdcw, disc type.	Filament Bypass	TMC CC-100-16 CDC TM5S1 (CCK05W103Z)	JCNAAF-C-26
C517	10EC/37187	CAPACITOR: fixed, mica, 620 uuf, ± 2%, char. D, 500 vdcw.	Part of IF Tank	CM20D621G	MIL-C-5A
C518	10EC/37187	CAPACITOR: fixed, mica, 620 uuf, ± 2%, char. D, 500 vdcw.	Part of IF Tank	CM20D621G	MIL-C-5A
C519	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, ± 20%, 500 vdcw, disc type.	Plate Decoupling	TMC CC-100-16 CDC TM5S1 (CCK05W103Z)	JCNAAF-C-26

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RECEIVING SET, RADIO AN/FRR-502		RADIO FREQUENCY TUNER TN-5010/FRR-502			
Ref. Symbol	RCAF Reference Number	Name and Description	Function	Manufacturer, Designation	Contractor or Government Draw. or Spec.
C520	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, $\pm 20\%$ , 500 vdcw, disc type.	Reactance Tube Grid Filter	TMC CC-100-16 CDC TM5S1 (CCKO5W103Z)	JCNAAF-C-26
C521	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, $\pm 20\%$ , 500 vdcw, disc type.	Reactance Tube Grid	TMC CC-100-16 CDC TM5S1 (CCKO5W103Z)	JCNAAF-C-26
C522	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, $\pm 20\%$ , 500 vdcw, disc type.	Reactance Tube Grid Filter	TMC CC-100-16 CDC TM5S1 (CCKO5W103Z)	JCNAAF-C-26
C523	10EC/29223	CAPACITOR: variable, ceramic, 7-45 uuf, 500 vdcw.	Reactance Tube Balance Control	CV11C450	JAN-C-81
C524	10EC/26186	CAPACITOR: fixed, ceramic, 47 uuf, $\pm 5\%$ , 500 vdcw.	Reactance Tube Screen Bypass	CC21UJ470J	JAN-C-20A
C525A		CAPACITOR: fixed, ceramic, 15 uuf, $\pm 10\%$ , 500 vdcw.	Reactance Tube Coupling	CC21SL150K	JAN-C-20A
C525B		CAPACITOR: fixed, Same as C525A			
C526	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, $\pm 20\%$ , 500 vdcw, disc type.	Plate Decoupling	TMC CC-100-16 CDC TM5S1 (CCKO5W103Z)	JCNAAF-C-26
C527	10EC/29449	CAPACITOR: variable, ceramic, 4-30 uuf, 500 vdcw.	Oscillator Trimmer	CV11V300	JAN-C-81
C528	10EC/26186	CAPACITOR: fixed, ceramic, 47 uuf, $\pm 10\%$ , 500 vdcw.	Oscillator Grid	CC21UJ470J	JAN-C-20A
C529	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, $\pm 20\%$ , 500 vdcw, disc type.	Cathode Bypass	TMC CC-100-16 CDC TM5S1 (CCKO5W103Z)	JCNAAF-C-26

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Ref. Symbol	RCAF Reference Number	Name and Description	Function	Manufacturer, Designation	Contractor or Government Draw. or Spec.
C530	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, ± 20%, 500 vdcw, disc type.	Screen Bypass	TMC CC-100-16 CDC TM5S1 (CCKO5W103Z)	JCNAAF-C-26
C531	(10EC/37238)	CAPACITOR: fixed, ceramic, 120 uuf, ± 10%, 500 vdcw.	RF Bypass	TMC CC-101-4 ERE GP2K121K (CCKO4X121K)	JCNAAF-C-26
C532	10EC/39845	CAPACITOR: variable, air dielectric, 3.2-50 uuf, 500 vdcw.	Crystal Tuning	TMC CT-104-1 HAM MAPC50B	
C533	10EC/35709	CAPACITOR: fixed, ceramic, 10 uuf, ± .5 uuf, 500 vdcw.	HFO Output	CC21SH100D	JAN-C-20A
C534	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, ± 20%, 500 vdcw, disc type.	Oscillator Plate Bypass	TMC CC-100-16 CDC TM5S1 (CCKO5W103Z)	JCNAAF-C-26
C535	10EC/37239	CAPACITOR: fixed, ceramic, 1 uuf, ± .25 uuf, 500 vdcw.	Oscillator Injection	CG2OSK010C	JAN-C-20A
C536	10EC/37240	CAPACITOR: fixed, mica, 1000 uuf, ± 2%, char. E, 500 vdcw.	Oscillator Padder	CM30E102G	MIL-C-5A
C537	(10EC/37224)	CAPACITOR: fixed, ceramic, 150 uuf, ± 10%, 500 vdcw.	Plate Tank	TMC CC-101-2 ERE GP2K151K (CCK22W151Z)	JCNAAF-C-26
C538	10EC/39956 (10EC/36578)	CAPACITOR: fixed, ceramic, .01 uf, ± 20%, 500 vdcw, disc type.	RF Bypass	TMC CC-100-16 CDC TM5S1 (CCKO5W103Z)	JCNAAF-C-26
C539		CAPACITOR: fixed, ceramic, 25 uuf, ± 10%, 500 vdcw.	Reactance Tube Linearity	CC21SL250K	JAN-C-20A
I500	5L/777	LAMP: incandescent, 6-8 v, 250 ma dc, bayonet base.	Pilot Light	GEC 44	TMC BI-101-44

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RECEIVING SET, RADIO AN/FRR-502			RADIO FREQUENCY TUNER TN-5010/FRR-502		
Ref. Symbol	RCAF Reference Number	Name and Description	Function	Manufacturer, Designation	Contractor or Government Draw. or Spec.
L501		NOT USED			
L502	10EC/39846	COIL: radio frequency, 2 sect.: 30 uh, Q of 40 at 2.5 mc, and 2.6 uh, Q of 30 at 7.9 mc.	Oscillator Tank	TMC A-313	
P500	10EC/39541	CONNECTOR: receptacle, 4 coaxial contacts, and 8 non-coaxial contacts.	RF Head Connector	TMC PL-109 CAN DPD-12C4-33S	
R500	10EC/32734	RESISTOR: fixed, composition, 100,000 ohms $\pm 10\%$ , $\frac{1}{8}$ watt.	AVC Filter	RC20GF104K	MIL-R-11A
R501	10EC/35233	RESISTOR: fixed, composition, 10 ohms, $\pm 10\%$ , $\frac{1}{8}$ watt.	Parasitic Suppressor	RC20GF100K	MIL-R-11A
R502	10EC/32816	RESISTOR: fixed, composition, 220 ohms, $\pm 10\%$ , $\frac{1}{8}$ watt.	Cathode Bias	RC20GF221K	MIL-R-11A
R503	10EC/35233	RESISTOR: fixed, composition, 10 ohms, $\pm 10\%$ , $\frac{1}{8}$ watt.	Screen Parasitic Suppressor	RC20GF100K	MIL-R-11A
R504	10EC/33056	RESISTOR: fixed, composition, 220,000 ohms, $\pm 10\%$ , $\frac{1}{8}$ watt.	P/O Screen Voltage Divider	RC20GF224K	MIL-R-11A
R505	10EC/32734	RESISTOR: fixed, composition, 100,000 ohms $\pm 10\%$ , $\frac{1}{8}$ watt.	P/O Screen Voltage Divider	RC20GF104K	MIL-R-11A
R506	10EC/36630	RESISTOR: fixed, composition, 27,000 ohms, $\pm 10\%$ , 2 watts.	Plate Decoupling	RC42GF273K	MIL-R-11A
R507	10EC/32734	RESISTOR: fixed, composition, 100,000 ohms $\pm 10\%$ , $\frac{1}{8}$ watt.	AVC Filter	RC20GF104K	MIL-R-11A
R508	10EC/35233	RESISTOR: fixed, composition, 10 ohms, $\pm 10\%$ , $\frac{1}{8}$ watt.	Parasitic Suppressor	RC20GF100K	MIL-R-11A

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RECEIVING SET, RADIO AN/FRR-502		RADIO FREQUENCY TUNER TN-5010/FRR-502			
Ref. Symbol	RCAF Reference Number	Name and Description	Function	Manufacturer, Designation	Contractor or Government Draw. or Spec.
R509	10EC/32816	RESISTOR: fixed, composition, 220 ohms, $\pm 10\%$ , $\frac{1}{2}$ watt.	Cathode Bias	RC20GF221K	MIL-R-11A
R510	10EC/35233	RESISTOR: fixed, composition, 10 ohms, $\pm 10\%$ , $\frac{1}{2}$ watt.	Screen Parasitic Suppressor	RC20GF100K	MIL-R-11A
R511	10EC/33056	RESISTOR: fixed, composition, 220,000 ohms $\pm 10\%$ , $\frac{1}{2}$ watt.	P/O Screen Voltage Divider	RC20GF224K	MIL-R-11A
R512	10EC/32734	RESISTOR: fixed, composition, 100,000 ohms $\pm 10\%$ , $\frac{1}{2}$ watt.	P/O Screen Voltage Divider	RC20GF104K	MIL-R-11A
R513	10EC/36630	RESISTOR: fixed, composition, 27,000 ohms, $\pm 10\%$ , 2 watts.	Plate Decoupling	RC42GF273K	MIL-R-11A
R514	10EC/35233	RESISTOR: fixed, composition, 10 ohms, $\pm 10\%$ , $\frac{1}{2}$ watt.	Parasitic Suppressor	RC20GF100K	MIL-R-11A
R515	10EC/32845	RESISTOR: fixed, composition, 820 ohms, $\pm 10\%$ , $\frac{1}{2}$ watt.	Mixer Cathode Bias	RC20GF821K	MIL-R-11A
R516	10EC/35244	RESISTOR: fixed, composition, 47,000 ohms, $\pm 10\%$ , 1 watt.	Plate Decoupling	RC30GF473K	MIL-R-11A
R517	10EC/32787	RESISTOR: fixed, composition, 470,000 ohms $\pm 10\%$ , $\frac{1}{2}$ watt.	Reactance Tube Grid Resistor	RC20GF474K	MIL-R-11A
R518	10EC/32787	RESISTOR: fixed, composition, 470,000 ohms $\pm 10\%$ , $\frac{1}{2}$ watt.	P/O Reactance Tube Grid Filter	RC20GF474K	MIL-R-11A
R519	10EC/32787	RESISTOR: fixed, composition, 470,000 ohms $\pm 10\%$ , $\frac{1}{2}$ watt.	P/O Reactance Tube Grid Filter	RC20GF474K	MIL-R-11A

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RECEIVING SET, RADIO AN/FRR-502		RADIO FREQUENCY TUNER TN-5010/FRR-502			
Ref. Symbol	RCAF Reference Number	Name and Description	Function	Manufacturer, Designation	Contractor or Government Draw. or Spec.
R520	10EC/34699	RESISTOR: fixed, composition, 2700 ohms, $\pm 5\%$ , $\frac{1}{2}$ watt.	Reactance Tube Cathode Bias	RC20GF272J	MIL-R-11A
R521	10EC/32784	RESISTOR: fixed, composition, 47,000 ohms, $\pm 10\%$ , $\frac{1}{2}$ watt.	Reactance Tube Screen Resistor	RC20GF473K	MIL-R-11A
R522		NOT USED			
R523	10EC/37234	RESISTOR: fixed, composition, 22 ohms, $\pm 10\%$ , $\frac{1}{2}$ watt.	Parasitic Suppressor	RC20GF220K	MIL-R-11A
R524	10EC/32780	RESISTOR: fixed, composition, 22,000 ohms, $\pm 10\%$ , $\frac{1}{2}$ watt.	Oscillator Grid Resistor	RC20GF223K	MIL-R-11A
R525	10EC/37232	RESISTOR: fixed, composition, 120 ohms, $\pm 10\%$ , $\frac{1}{2}$ watt.	Oscillator Cathode Bias	RC20GF121K	MIL-R-11A
R526	10EC/37241	RESISTOR: fixed, composition, 39,000 ohms, $\pm 10\%$ , $\frac{1}{2}$ watt.	Oscillator Screen Resistor	RC20GF393K	MIL-R-11A
R527	10EC/37241	RESISTOR: fixed, composition, 39,000 ohms, $\pm 10\%$ , $\frac{1}{2}$ watt.	Oscillator Plate Resistor	RC20GF393K	MIL-R-11A
R528	10EC/36120	RESISTOR: fixed, composition, 3,300 ohms, $\pm 5\%$ , $\frac{1}{2}$ watt.	Reactance Tube Plate Load	RC20GF332J	MIL-R-11A
S500	10EC/39540	SWITCH: rotary, non-shorting, mycalex insulation, two pole, three position.	Slave, Master Xtal Operational Switch	TMC SW-100 OAK 53340FLX	

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RECEIVING SET, RADIO AN/FRR-502		RADIO FREQUENCY TUNER TN-5010/FRR-502			
Ref. Symbol	RCAF Reference Number	Name and Description	Function	Manufacturer, Designation	Contractor or Government Draw. or Spec.
T500	10EC/39847	TRANSFORMER: r-f, 2-4 mc, pri. 2.8 uh, secy. 35 uh.	Antenna Transformer	TMC A-314	
T501	10EC/39848	TRANSFORMER: r-f, 2-4 mc, pri. 200 uh, secy. 42 uh.	Interstage Transformer	TMC A-312	
T502	10EC/39849	TRANSFORMER: r-f, 2-4 mc, pri. 200 uh, secy. 42 uh.	Mixer Transformer	TMC A-315	
T503	10EC/40565	TRANSFORMER: i-f, 455 kc, plate coupling.	IF Transformer	TMC A-157	
V500	10EC/18141 (10EC/21430)	TUBE: electron, 6AG5, miniature 7 pin.	1st RF	6AG5 (JAN 6AG5)	JCNAAF-T-1
V501	10EC/18141 (10EC/21430)	TUBE: electron, 6AG5, miniature 7 pin.	2nd RF	6AG5 (JAN 6AG5)	JCNAAF-T-1
V502	10EC/27511 (10EC/35258)	TUBE: electron, 6AU6, miniature 7 pin.	Mixer	6AU6 (JAN 6AU6WA)	JCNAAF-T-1
V503	10EC/18141 (10EC/21430)	TUBE: electron, 6AG5, miniature 7 pin.	Reactance Tube	6AG5 (JAN 6AG5)	JCNAAF-T-1
V504	10EC/18141 (10EC/21430)	TUBE: electron, 6AG5, miniature 7 pin.	HF Oscillator	6AG5 (JAN 6AG5)	JCNAAF-T-1
XI500	5L/1642	SOCKET: miniature bayonet base, T-3 $\frac{1}{2}$ bulb, right angle, down turned, short, hole size 5/32 in., 1-3/8 in. lg, 7/16 wd OA.	Lamp Socket	TMC TS-109 DLC 708	
XV500	10EC/29469	SOCKET: tube, 7 pin miniature.	V500 Socket	TS102P01	JAN-S-28A
XV501	10EC/29469	SOCKET: tube, 7 pin miniature.	V501 Socket	TS102P01	JAN-S-28A
XV502	10EC/29469	SOCKET: tube, 7 pin miniature.	V502 Socket	TS102P01	JAN-S-28A

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RECEIVING SET, RADIO AN/FRR-502		RADIO FREQUENCY TUNER TN-5010/FRR-502			
Ref. Symbol	RCAF Reference Number	Name and Description	Function	Manufacturer, Designation	Contractor or Government Draw.or Spec.
XV503	1OEC/29469	SOCKET: tube, 7 pin miniature.	V503 Socket	TS102P01	JAN-S-28A
XV504	1OEC/29469	SOCKET: tube, 7 pin miniature.	V504 Socket	TS102P01	JAN-S-28A
XY500	1OEC/38616	SOCKET: crystal, ceramic, .487 in. spacing for .050 in. pins.	Xtal Socket	TMC TS-104-1 EBY 8879	
Y500	1OX/* /CR-18/U  * (Reference number dictated by frequency required)	CRYSTAL UNIT: quartz (frequency as required) (not supplied with r-f tuner)	HFO Control	CR-18/U	MIL-C-3098A

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