

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

FFRD-5 TUNING DRAWER

TUBE	TYPE	FUNCTION	SOCKET PIN NUMBERS						
			1	2	3	4	5	6	7
V500	6AG5	1 <sup>ST</sup> RF AMP	1.5 M	220Ω	6.8K	6.8K	48 K	90 K	220Ω
V501	6AG5	2 <sup>ND</sup> RF AMP	1.5 M	220Ω	6.8K	6.8K	48 K	90 K	220Ω
V502	6AU6	MIXER	10Ω	0	6.8K	6.8K	78K	78K	820Ω
V503	6AG5	HFO REACT. MOD.	1.4M	2.7 K	6.8K	6.8K	26K	73K	2.7 K
V504	6AG5	HFO OSC.	22 K	120Ω	6.8K	6.8K	68K	68K	120Ω

CH-105-1

FFRD-6 TUNING DRAWER

TUBE	TYPE	FUNCTION	SOCKET PIN NUMBERS						
			1	2	3	4	5	6	7
V600	6AG5	1 <sup>ST</sup> RF AMP	1.5 M	220Ω	6.8K	6.8K	50 K	95 K	220Ω
V601	6AG5	2 <sup>ND</sup> RF AMP	1.5 M	220Ω	6.8K	6.8K	50 K	95 K	220Ω
V602	6AU6	MIXER	10Ω	0	6.8K	6.8K	80 K	80K	820Ω
V603	6AG5	HFO REACT. MOD.	1.4 M	1.2 K	6.8K	6.8K	27K	75 K	1.2 K
V604	6AG5	HFO OSC.	22 K	120Ω	6.8K	6.8K	70 K	70K	120Ω

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FFRD-7 TUNING DRAWER

TUBE	TYPE	FUNCTION	SOCKET PIN NUMBERS						
			1	2	3	4	5	6	7
V700	6AG5	1 <sup>ST</sup> RF AMP	1.5 M	220Ω	6.8K	6.8K	45 K	93 K	220Ω
V701	6AG5	2 <sup>ND</sup> RF AMP	1.5 M	220Ω	6.8K	6.8K	45 K	93 K	220Ω
V702	6AU6	MIXER	0	950Ω	6.8K	6.8K	75 K	75 K	950Ω
V703	6AG5	HFO REACT. MOD.	1.4 M	1.2 K	6.8K	6.8K	52 K	68 K	1.2 K
V704	6AG5	HFO OSC.	22 K	120Ω	6.8K	6.8K	66 K	66K	120Ω

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FFRD-8 TUNING DRAWER

TUBE	TYPE	FUNCTION	SOCKET PIN NUMBERS						
			1	2	3	4	5	6	7
V800	6AK5	1 <sup>ST</sup> RF AMP	1.5 M	220Ω	6.8K	6.8K	50 K	94 K	220Ω
V801	6AK5	2 <sup>ND</sup> RF AMP	1.5 M	220Ω	6.8K	6.8K	50 K	94 K	220Ω
V802	6AU6	MIXER	5Ω	950Ω	6.8K	6.8K	80 K	80K	950Ω
V803	6AG5	HFO REACT. MOD.	1.5 M	750Ω	6.8K	6.8K	50 K	75 K	750Ω
V804	6AK5	HFO OSC.	22 K	120Ω	6.8K	6.8K	27 K	50 K	120Ω

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MODEL FFR RECEIVER

TUBE	TYPE	FUNCTION	SOCKET PIN NUMBERS								
			1	2	3	4	5	6	7	8	9
VI00	6BA6	1 <sup>ST</sup> IF AMP	1.7 M	220Ω	6.8K	6.8K	32K	50 K	220Ω	—	—
VI01	6BA6	2 <sup>ND</sup> IF AMP	1.5 M	220Ω	6.8K	6.8K	32 K	50 K	220Ω	—	—
VI02	6BA6	3 <sup>RD</sup> IF AMP	5Ω	220Ω	6.8K	6.8K	32 K	50 K	220Ω	—	—
VI03	6AL5	2 <sup>ND</sup> DET. & AVC	0	1.2 M	6.8K	6.8K	6.8K	0	520K	—	—
VI04	6T8	NOISE LIMITER & 1 <sup>ST</sup> AUDIO	—	1.0 M	470K	6.8K	6.8K	—	2.7 K	1.0 M	225 K
VI05	6AQ5	AUDIO	470K	510Ω	6.8K	6.8K	32 K	32 K	—	—	—
VI06	6J6	BFO REACT. MOD.	95K	95K	6.8K	6.8K	33 K	590K	1.0 K	—	—
VI07	6AG5	BFO OSC.	47K	120Ω	6.8K	6.8K	37 K	150K	120Ω	—	—
VI08	5Y3GT	RECTIFIER	—	32 K	—	730Ω	—	750Ω	—	32 K	—
VI09	0A2	VOLTAGE REG.	32 K	—	—	—	32 K	—	—	—	—

NOTE: K = 1000 Ω  
M = 1 MEGOHM

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TUBE SOCKET RESISTANCES

RESISTANCE MEASURED FROM TUBE SOCKET PINS TO GROUND. LINE CORD DISCONNECTED FROM POWER SOURCE AND TUNING DRAWER PLUGGED INTO RECEIVER. OPERATING CONTROLS WERE SET AS FOLLOWS:

CONTROL

POSITION

HFO (SLAVE — MASTER) SW. .... HFO  
 AUDIO GAIN ..... FULLY CLOCK WISE  
 AVC — MANUAL SW. .... AVC  
 NOISE LIMITER SW. .... ON  
 BFO SW. .... ON  
 BFO (SLAVE — MASTER) SW. .... BFO  
 RF GAIN ..... FULLY CLOCKWISE

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 MAMARONECK, NEW YORK

REQ	ITEM	PART NO.	DESCRIPTION	SYMBOL
STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
MATERIAL		TUBE SOCKET RESISTANCES FFR RECEIVER		
TYPE & TEMPER		4-29-53 G.T.O. DRAWN ELEC. DES. APP. MECH. DES. APP.		
HEAT TREAT. SPEC.		G.T.O. CHECKED FINAL APPROVAL		
FINISH & SPEC. NO.		CH-105		

FFR	PROJECT NO.	ASS'Y. NO.	DATE
MODEL			4-29-53
USED ON			

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES							
ALL OTHERS				SCALE: #			
DEC. DIM. ±				DRILL PUNCH, COMMERCIAL STOCK			
FRAC. DIM. ±				SIZES AND MANUFACTURERS			
ANGULAR DIM. ±				TOLERANCES ARE NOT INCLUDED.			