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CON	CONDENSERS			RESISTORS		
	cription	Part	Symbol	Description	Part Number	
C1 20 mmfd. Mica		65B7-5 65B7-21	R1 R2	10,000 Ohms, 1 Watt	60B14-103	
C3 35 mmfd. Silver Mic	3	65B 1-30	R2 R3 R4	470,000 Ohms, 1/2 Watt. 470,000 Ohms, 1/2 Watt. 470,000 Ohms, 1/2 Watt.	60B8-473	
C5 250 mmfd. Silver Mic	Ca	65B1-35	R5	8,200 Ohms, 1 Watt	60B14-822	
C6 65 mmfd. Silver Mic C7 40 mmfd. Silver Mic	a.	65B1-27 65B1-36	R6 R8	10,000 Ohms, 5 Watt	61A1-3	
C8 140 mmfd. Silver Mi	Ca	65B1-26	R9	7,000 Ohms, 7, Watt. 10,000 Ohms, 5 Watt. 10,000 Ohms, 5 Watt. 22,000 Ohms, ½ Watt. 1,500 Ohms, ½ Watt.	60B8-101	
C10 200 mmfd. Silver Mic	4	65B1-14	R10 R11	1,500 Ohms, ½ Watt	60B8-152	
C11 15 mmfd. Silver Mic C12 60 mmfd. Silver Mic	a	65B5-3 65B5-13	R12 R13	1,500 Ohms, ½ Watt	60B8-471	
C13 .1 mfd. 400 Volts		64 B 1-20	R14 R15	470,000 Ohms, 1/2 Watt	60B8-474	
C15 50 mmfd. Mica		65 B5- 11	R16	270,000 Ohms, 1/2 Wart	60B8-274	
C16 250 mmfd. Mica C17 .05 mfd. 200 Volts	······································	64B1-32	R17 R18	270,000 Ohms, ½ Watt	60B8-100	
C18 20 mmfd. Mics C20 .1 mfd. 400 Volts		65B5-5	R19 R20	1,000 Ohms, ½ Watt	60B8-102 60B8-274	
C21 50 mmfd. Mica C22 50 mmfd. Mica		65B 5-11	R21	470,000 Ohms, 1/2 Watt	60B8-474 60B8-474	
C22 50 mmfd. Mica C23 .002 mfd. 600 Volts	······································	64 B 1-14	R22 R23	470,000 Ohms, ½ Watt	60B8-474	
C24 500 mmfd. Mica C25 .005 mfd. 600 Volts	••••••••••	65B5-27 64B1-12	R24 R25	270 Ohms, 2 Watt	60B20-271	
C26 .005 mfd. 600 Volts	•••••••••••	64B1-12	R26	100,000 Ohms, 1/4 Watt	60B8-104	
C28 .005 mfd. 600 Volts	***************************************	64B1-12	R27 R28	100,000 Ohms, ½ Watt	75B3-3	
C29 250 mmfd. Mica	•••••		R29 R30	1 Megohm, ½ Watt	60B8-105	
C30a 30 mfd. 350 Volts C30b 30 mfd. 350 Volts C30c 20 mfd. 25 Volts	ctrolytic	67C6-25		, ,,		
C31 3-40 mmfd.)			C36	.002 mfd., 600 Volts	64B1-14	
C32 3-40 mmfd. Trimmer C33 3-40 mmfd.		66A12-5	C37 C38	.002 mid., 600 Volts	64B1-15	
C34a 3-40 mmfd.]			C39	.01 mfd., 400 Volts	64B1-25	
C34b 3-40 mmfd. Trimmer	.,	66188-3	C40 C41	12-1/0 mmid. 1 rimmer		
C25a 2.40 mm(d.)		ccno a	C42 } C43 }	25-290 mmfd. Trimmer	66A12-2	
C35b 3-40 mmfd. Trimmer C35c 3-40 mmfd.		00.00-0	C44 7	40-400 mnild. Trimmer	66A12-3	
			C45 } C46	.002-600 volts	64B1-14	
STRINGIN	G DIAGR	AMS				
	n DIA	AGRAM (A)		GANG		
	1			WIDE DPEN		
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	DICTANOF *4 D*	MUCT DE TU	F C . M	E AS DISTANCE DE		
	DISTANCE AB	MOSI BE IN	C SAME	AS DISTANCE DE		
\sim				DIACDAM (B)	D	
N ()	\			DIAGRAM (B)		
N 111 D	1			Gang shown in wide open		
)			position. 2 strings used,	$(\bigcirc y)$	
				1 front and 1 rear.		
1					CONNECTION TO	
			7		SLUG GANG TUNER	
	`			DIAGRAM	(C)	
\)	- 1		_ 18		
	1			SWITCH IN "PUSH BUT	TON" POSITION	
		,				

dmital ALIGNMENT 10A1 PROCEDURE CHASSIS

1. Loop must be connected during alignment.

Check the set screws that hold the tuning drum to the shaft to see that they are tight and that the drum has not slipped on the shaft. The correct position of the drum can be seen on stringing diagram (A).

In the wide open position the stop on the rear of the dial drum must be against the stop post.

With the gang wide open, all slugs should be 1 % inches out of their coil forms. If there is any serious deviation

of if there has been any tampering, turn the adjusting screws until this distance is corrected. (See paragraph on Tuning Slug Replacement.)

4. Be sure both the set and the signal generator are thoroughly warmed up before starting alignment.

Turn receiver Volume Control full on.

6. Use lowest output setting of signal generator that gives a satisfactory reading on meter.

7. Proceed in sequence as outlined below.

Бтер	Connect Signal Generator To	DUMMY ANTENNA BETWEEN RADIO AND SIGNAL GENERATOR	SIGNAL GENERATOR FREQUENCY	Tuning Gang Setting	Adj. Trimmers in Following Order To Max.						
1	6SA7 Grid (Pin #8)	.1 MFD.	455 K.C.	Pointer to upper limit	E, D, C, B, A						
2	Before proceeding to step 3 check pointer travel as outlined under paragraph below headed "Pointer Adjustment." Set Band Change Switch to Broadcast Position.										
3	White Loop Lead	10 MMFD. If not available wrap	1605 K.C.	Pointer to upper limit	F, G, H						
4	White Loop Lead	several turns of the generator lead around the white loop lead.	1300 K.C.	Set Pointer to 1300 mark on slide rail (See Dial Diagram A)	I, J, K						
5	Set Band Change Switch to 49 Meter Position.										
6	White Loop Lead	400 Ohms	7.5 Mc.	Pointer to upper limit	L, M						
7	White Loop Lead	400 Ohms	7.2 Mc.	Set Pointer to 1300 mark on slide rail	N, O						
8	Set Band Change Switch to 31-25 Meter Position.										
9	White Loop Lead	400 Ohms	12.5 Mc.	Pointer to upper limit	P, Q						
10	Set Band Change Swi	tch to 19-16 Meter Position									
11	White Loop Lead	400 Ohms	18.0 Mc.	Pointer to upper limit	R, S						

POINTER ADJUSTMENT

Move the dial pointer by means of the tuning control knob to see that it reaches the upper and lower limits as shown on stringing diagram (A). In the upper limit position measure the distance D-E and in the lower limit position measure the distance A-B. The distance from A and B must be the same as the distance from D to E. If these distances are not equal, unclamp and move the pointer slide on the string until they are the same. The pointer should be checked again at the upper and lower limit to be sure that it is right. Take care to see that the pointer does not slip during this operation. Reclamp the pointer slide tightly to the string and seal with any quick-drying cement. Set the tuning gang wide open and proceed with operation 3.

TUBE AND TRIMMER LAYOUTS



