

INSTRUCTION BOOK

CB-11 TURNTABLE, "45 RPM ADAPTOR

Gates Radio Company

MANUFACTURING ENGINEERS SINCE 1922

QUINCY, ILLINOIS

45 RPM ADAPTER KIT (Used on CB-11 Only)

The 45 RPM Adapter Kit consists of a brass bushing with a plug insert. The plug slips into the 33-1/3 RPM spindle of the CB-11 turntable chassis; also a center pin adapter to accommodate the 45 RPM RCA records. Two holes have been cut in the top of the turntable platter which come directly over the motor spindle. The motor spindle will be found on a direct line between the operating handle and the center of the platter. To use the Adapter Kit, merely turn the 1-1/2" hole so that it is over the motor spindle and slip the adapter into the spindle. Then place the record adapter over the record pin in the platter. To operate, turn the operating handle to the 33-1/3 RPM position and the turntable will operate at 45 RPM. To go back to 33-1/3 RPM operation, merely remove the adapter from the motor spindle and the record adapter from the platter and the turntable is ready for operation in a normal manner. If this kit is supplied for use with turntable chassis which were shipped from the factory without this feature, it will be necessary to drill a 1-1/2" hole in the platter in accordance with the drawing supplied with the kit. Slight readjustment of the idler wheel yoke and tension spring may be necessary to obtain correct operation at all three speeds. All turntable chassis which are equipped for three-speed operation at the factory have been carefully adjusted for this operation.

When converting to the 45 RPM adapter, it may be necessary to re-adjust the idler yoke. For adjusting yoke, see instructions below.

IDLER YOKE ADJUSTMENTS FOR MODEL CB-11 AND CB-21 TURNTABLES

First, it is necessary to loosen the large bolt which holds the idler wheel bracket in place. Loosen this bolt just enough to allow adjusting. A large screwdriver for the slotted end of the bolt and a wrench for the nut are the tools you will need. Adjust the yoke so both idler wheels engage with the motor drive pulley just before they engage with the platter.

The 33-1/3 RPM speed is the more critical of the two as there is less driving surface on the motor pulley for driving the idler wheel. When adjusting the idler wheel for this speed, engage the motor starting switch in the 33-1/3 position and start platter rotating. Then stop platter with your fingers. If the wheel is properly adjusted, slippage should occur between the platter and the idler wheel and not on the motor drive pulley.

After both wheels are adjusted properly, tighten bolt holding idler assembly, making sure assembly does not slip in the process. The turntable should now operate properly at both speeds and also give proper torque for satisfactory operation. No adjusting of the springs on the idler yoke is necessary unless tension of the springs is weak. If more tension is required, this can be accomplished by moving the two nuts forward on the threaded shaft.

PARTS LIST

<u>QUANTITY</u>	<u>DRAWING</u>	<u>DESCRIPTION</u>
1	A-9603-101	Drive pulley adapter plug (For 60 Cycle operation) CB-11
*1	A-9603-102	Drive pulley adapter plug (For 50 Cycle operation) CB-11
1	A-2998-4	Motor Drive Pulley, A-7030-1 (For 60 Cycle operation) CB-11
*1	A-2998-4	Motor Drive Pulley, A-7795-1 (For 50 Cycle operation) CB-11
1	A-5603-1	Center Pin Adapter Bushing

Note: *These parts used when turntable is operated on 50 cycles.

IDLER YOKE ADJUSTMENTS FOR MODEL CB-11 TURNTABLES

First, it is necessary to loosen the large bolt which holds the idler wheel bracket in place. Loosen this bolt just enough to allow adjustment. A large screwdriver for the slotted end of the bolt and a wrench for the nut are the tools you will need. Adjust the yoke so both idler wheels engage with the motor drive pulley just before they engage with the platter.

The 33-1/3 RPM and 45 RPM speeds are the more critical as there is less driving surface on the motor pulley for driving the idler wheel. When adjusting the idler wheel for these speeds, place the 45 RPM adaptor on the motor pulley and engage the motor starting switch in the 33-1/3 RPM position and start platter rotating. Then stop platter with your fingers. When the yoke is properly adjusted, slippage should occur between the platter and the idler wheel and not on the motor drive pulley.

The next step is to remove the adaptor and again engage the motor starting switch in the 33-1/3 RPM position to determine if the yoke is adjusted properly for that speed, noting as before that the slippage should occur between the platter and idler wheel and not on the motor pulley. When these two speeds are adjusted properly, engage the motor starting switch in the 78 RPM position and check for correct speed in that position. This procedure may have to be repeated a few times until the yoke is properly adjusted at all three speeds.

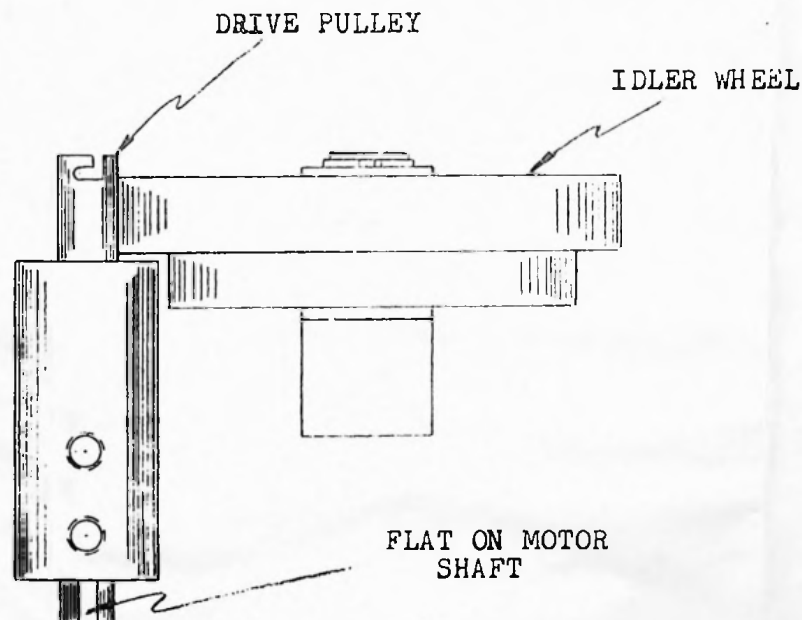
After both wheels are adjusted properly, tighten bolt holding idler assembly, making sure assembly does not slip in the process. The turntable should now operate properly at both speeds and also give proper torque for satisfactory operation. No adjusting of the springs on the idler yoke is necessary unless tension of the springs is weak. If more tension is required, this can be accomplished by moving the two nuts forward on the threaded shaft.

GATES RADIO COMPANY

QUINCY, ILLINOIS

Nov. 29, 1954

A-10332



SHOWN IN 33-1/3 DRIVE POSITION WITH ADAPTOR REMOVED

Adjust drive pulley height so idler wheel rides between shoulder and notch. Set screws should be on flat side of motor shaft. Follow yoke adjustment as outlined in instruction sheet.

Variations on Finished Dimensions unless otherwise marked

Basic Dimensions	Fractional Dimensions	Decimal Dimensions
Up to 1/4	$\pm 1/128$	$\pm .005$
Above 1/4 to 6	$\pm 1/64$	$\pm .005$
Above 6 to 24	$\pm 1/32$	$\pm .010$
Above 24	$\pm 1/16$	$\pm .015$

DRIVE PULLEY HEIGHT ADJUSTMENT - CB-11

MATL.	FIN.	PART NO.
DRAWN BY	DATE 12/23/54	
CHECKED BY	DATE <i>HH</i>	
GATES RADIO COMPANY QUINCY, ILLINOIS		DWG. NO. A-10332