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COMMONWEALTH ELECTRONICS PTY. LTD.



TRANSCRIPTION TURNTABLES

TYPES 12B AND 12B-1

James Street

BAULKHAM HILLS

N. S. W.

Phone YA4211

Derwent Park Annexe

DERWENT PARK

Hobart, Tasmania.

Phone W9444

INSTRUCTIONS FOR USE

TRANSCRIPTION TURNTABLE TYPES 12B AND 12B-1

COMMONWEALTH ELECTRONICS PTY., LTD.

SYDNEY, N.S.W.

HOBART, TASMANIA.

AUSTRALIA

APPLICATION:

The types 12B and 12B/1 4 speed transcription turntables have been produced to satisfy the requirements for high quality reproduction of recordings made at $78-45-33\frac{1}{3}$ and $16\frac{2}{3}$ R.P.M. with a maximum diameter of 12 inches.

DESCRIPTION:

The turntable is of cast aluminium construction with a rim of large cross section for maximum fly wheel effect. The turntable is mounted on a precision ground hardened steel spindle revolving in porous bronze bushes fitted in a well which is cast integral with the aluminium base plate. Thrust is taken by a single steel ball located at the bottom of the turntable shaft. Drive for the Type 12B is provided by a large heavy duty synchronous motor mounted on the base plate by a special moulded shock mount. The motor spindle is fitted with a 4 step capstan pulley which provides the correct speeds via a large neoprene idler wheel situated between the capstan and the inner rim of the turntable. A simple and robust cam mechanism raises and lowers the idler wheel to the correct capstan steps and provides indexing for the speed change knob.

A wafer switch gives control of power to the motor and pilot light and automatically retracts the idler wheel when the motor is switched off. A brake is also applied to the turntable rim to assist in bringing the heavy turntable to rest. The Type 12B/1 is identical in all respects except that a shaded pole motor is fitted instead of the synchronous type.

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INSTALLATION:

Place the paper template on the motor board in the desired position and mark through on the dotted line with a scribe or other sharp instrument, cut out neatly and drop the unit into place, mark through the mounting holes, remove the unit, drill the holes, refit and screw into place. The power cord is fitted with a 3 pin plug top as a standard fitting, however, this may be removed and any approved connection used if desired.

OPERATION:

Select the desired speed by rotating the control knob to the correct position then switch the power switch to "ON". If the pilot light is needed turn the switch to the next clockwise position.

WARNING:

When changing speed, switch "off" and allow the turntable to stop before selecting another speed and always switch "off" at the power before removing power from the equipment. This will ensure that the idler is disengaged and "flats" will not form on the tyre. If these simple precautions are observed the idler wheel will continue to give satisfactory service over a very long period. If a flat is accidentally formed a run of an hour or so should remove it.

LUBRICATION:

All bearings in the unit are of the porous bronze self lubricating type and require attention at very infrequent intervals. It is suggested that a few drops of SAE 20 oil be applied to the drive motor bearings, turntable shaft, and idler wheel (via oil hole) at intervals of approximately 12 months. The cam mechanism should also be cleaned and smeared with oil at the same time. Do not allow oil to reach the idler tyre. This may be cleaned with a cloth dampened with petrol if required.

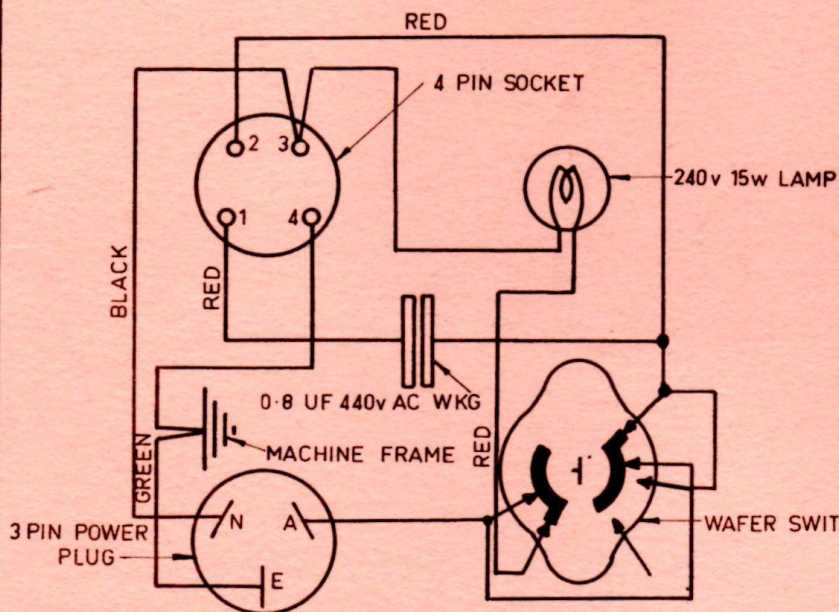
ADJUSTMENTS:

Provision is made to adjust the height of the capstan pulley by means of a screwed plug situated at the lower end of the motor drive shaft. To adjust, remove turntable, loosen the locking screw and turn the screwed thrust plug until the idler wheel is centred on the capstan pulley steps, then tighten the locking screw.

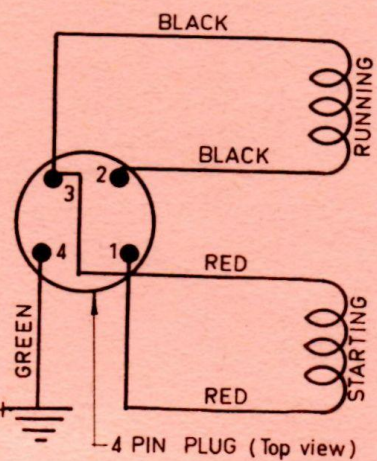
WARNING:

Always place the "Power" switch in the "OFF" position before removing or replacing the turntable, failure to do this will result in damage to the idler wheel.

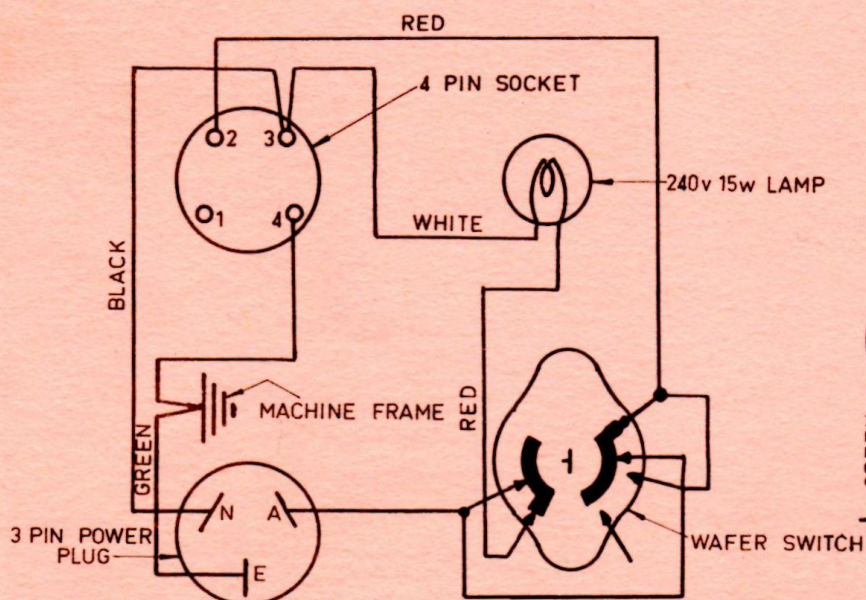
To replace the pilot lamp, remove the two screws situated under the base plate which secure the housing in position, replace lamp and re-tighten screws.



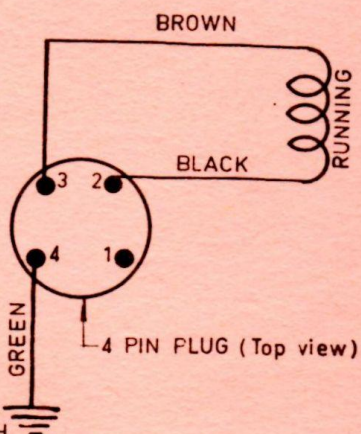
TURNTABLE TYPE 12B



MOTOR TYPE 4PS/10



TURNTABLE TYPE 12B/1



MOTOR TYPE D23

COMMONWEALTH ELECTRONICS PTY LTD
SYDNEY HOBART

CIRCUIT SCHEMATIC
INTERWIRING
4 SPEED TURNTABLE
TYPE 12B & 12B/1