

Dual 1014

Operating Instructions



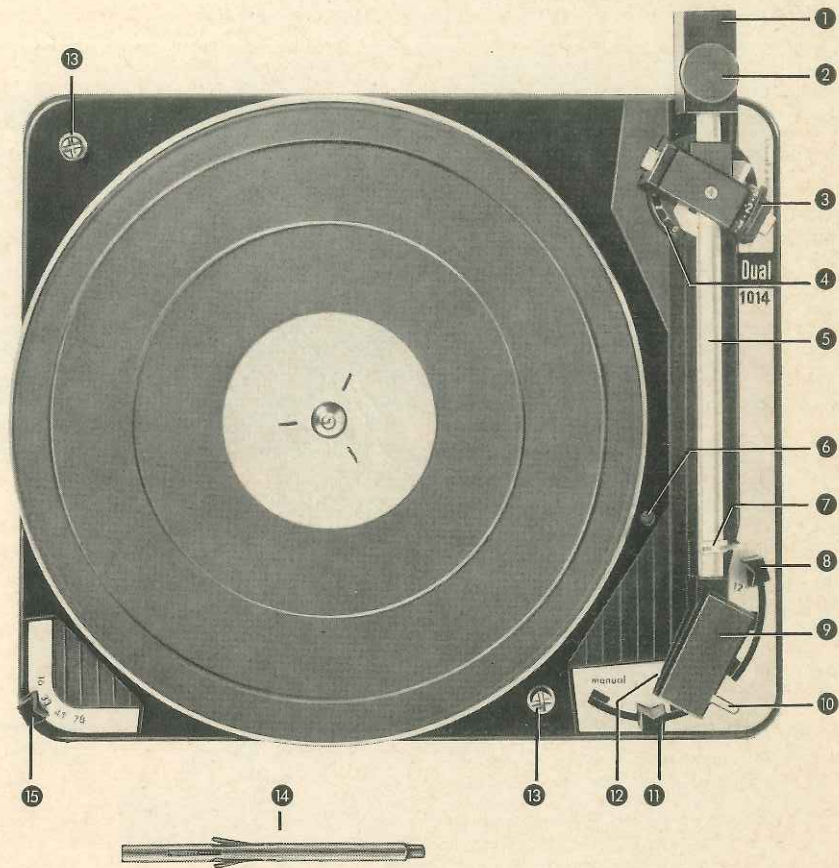


Now that you are ready to install this fine quality instrument, you are probably eager to try it as soon as possible. This instruction manual has been planned to help you do it quickly and correctly. We suggest you read these instructions thoroughly before taking the first step.

If your Dual 1014 was purchased already installed within a cabinet, you will not be concerned with the installation directions on page 4. However, you will probably find it interesting to read about this additional example of the Dual 1014's advanced technology.

We certainly hope you will enjoy many years of pleasure listening to records being played on your Dual 1014.

- ① Tonearm counterbalance
- ② Lock-knob for counter balance
- ③ Scale for tracking force
- ④ Anti-skating scale
- ⑤ Tonearm
- ⑥ Adjustment for tonearm indexing
- ⑦ Tonearm lock
- ⑧ Record size selector
- ⑨ Tonearm head
- ⑩ Tonearm lift and cartridge holder lock
- ⑪ Operating slide switch
- ⑫ Cartridge holder
- ⑬ Top-mount spring screw
- ⑭ Changer spindle
- ⑮ Speed selector

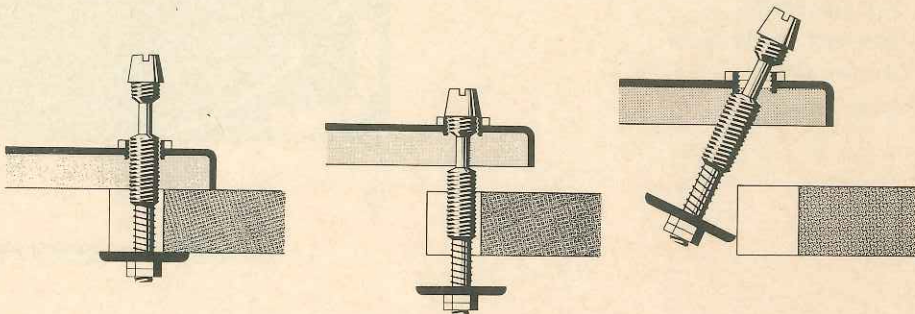
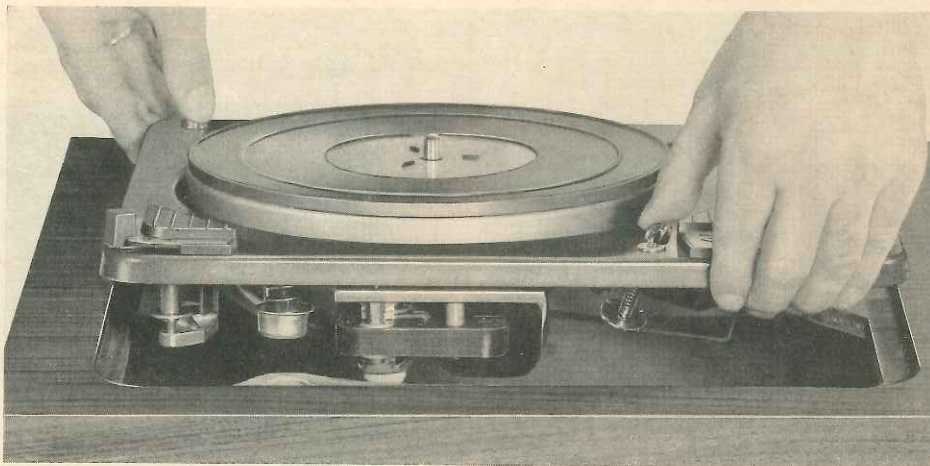


Installation

Hold the chassis above the base so that the three spring-mounted footings will fit into their cut-outs. As you lower the chassis, tilt the spring screws with your thumbs to let them slip past the special notches. Then turn each screw clockwise until it is firmly seated in the top of the chassis. It is now secured in playing position.

By the way, these spring screws have been ingeniously designed to provide three different functions. As you have seen, they secure the Dual 1014 to its base. For shipping the unit, just loosen the screws and continue to turn them counter-clockwise (while pulling them up) until the chassis is locked firmly against the base. As you have also seen, these screws make it possible to install and remove the chassis from above, without any need to fumble underneath. (See the installation instructions enclosed with the unit.)

Of course, after shipment, the screws should be first loosened by turning them clockwise and then continuing to turn them until they are again seated in the chassis.



Connection to line voltage

The Dual 1014 is adjusted for 110 volt, 60 cycle, AC. For use on a different voltage (220, 150 volt) or different frequency (50 cycle), it must be readjusted accordingly. The voltage adjustment is located on the chassis, and is accessible by removing the turntable platter. If your Dual 1014 was purchased already installed in a console or similar cabinet, the directions for power supply pertain to the console as well. To change to a different frequency, the motor drive pulley (a) must be exchanged. It is secured to the motor spindle by a single screw.

Caution !

Handle the drive pulley with great care.

Bent motor spindles cause rumble.

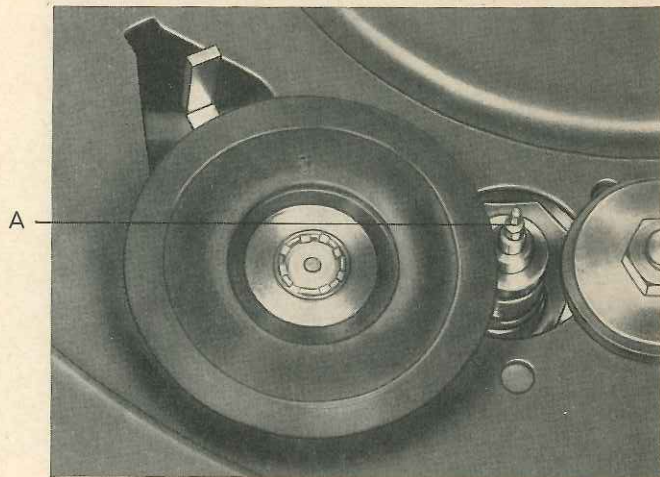
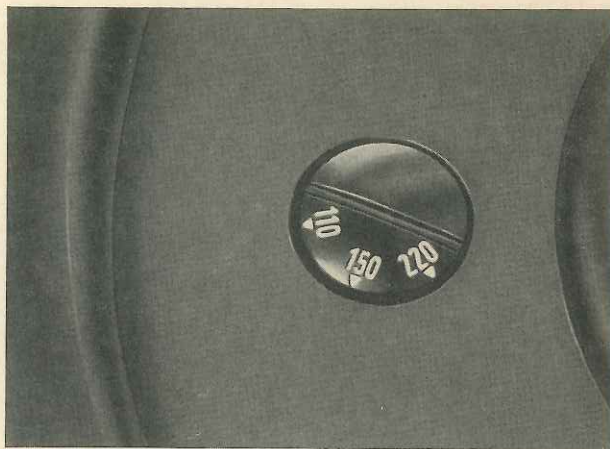
Catalog numbers for drive pulleys:

50 cycle — 12 G - U 40—49

60 cycle — 12 G - U 50—59

The power switch of the Dual 1014 has an additional power terminal for connection to preamplifiers or amplifiers. When so connected, these components will be turned on and off by the Dual 1014. The additional voltage should not exceed 350 VA.

In units with voltage adjustment, this is contact 7 of the power switch; in units without such adjustment, this is contact 5.

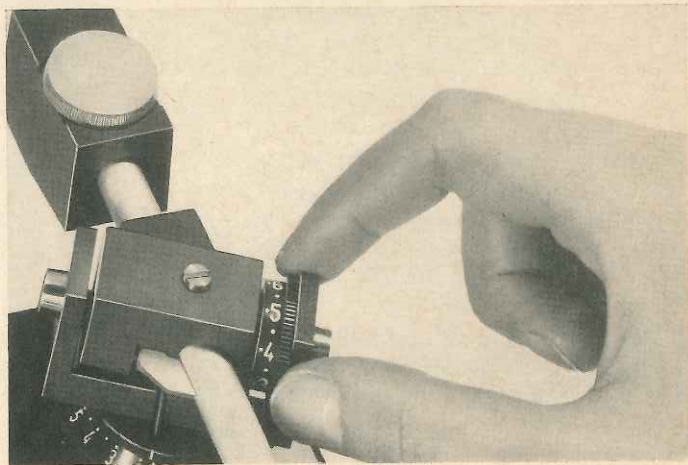
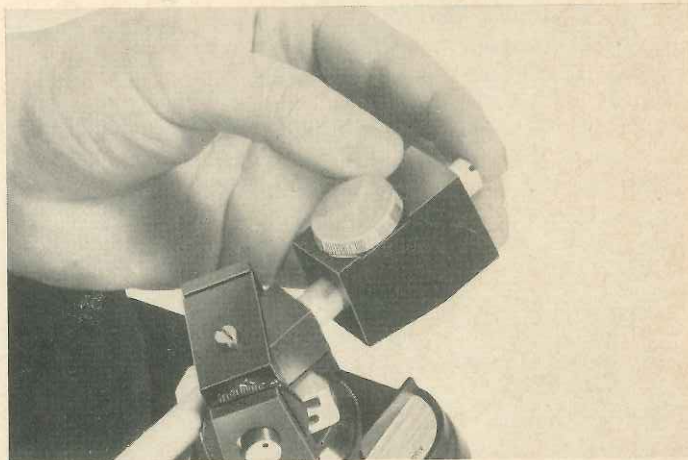


Balancing the tonearm

In order to take full advantage of the lightweight tracking made possible by today's finest high compliance cartridges, the tonearm must be capable of perfect balance. This is achieved very easily with the Dual 1014 tonearm. After the cartridge has been installed in the tonearm head, set the tracking force scale to 0 and loosen the lock-knob of the counterbalance. Lift the tonearm off its resting post and slide the counterbalance back and forth until the tonearm floats in a horizontal position. Then tighten the lock-knob. (This procedure should be repeated whenever the cartridge is replaced.)

Tracking force adjustment

Tracking force on the Dual 1014 tonearm can be dialed in a continuous range from 0 to 7 grams. To set the desired tracking force for your cartridge, follow the recommendations of its manufacturer as provided in the instructions. The numerals on the tracking force dial are accurate provided that the tonearm has first been accurately balanced at 0 for the weight of the cartridge, as described above.

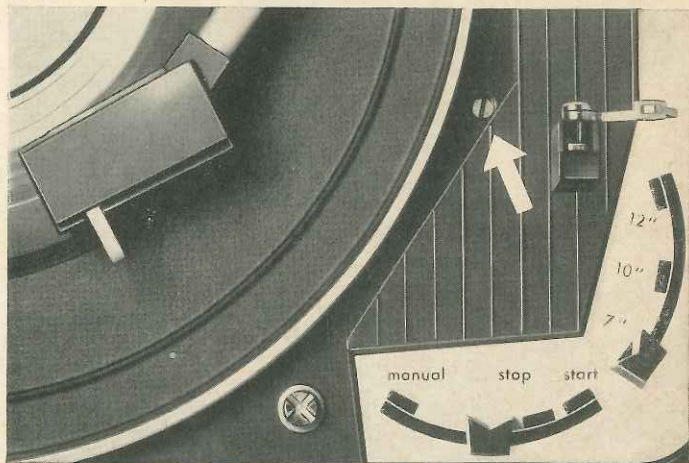
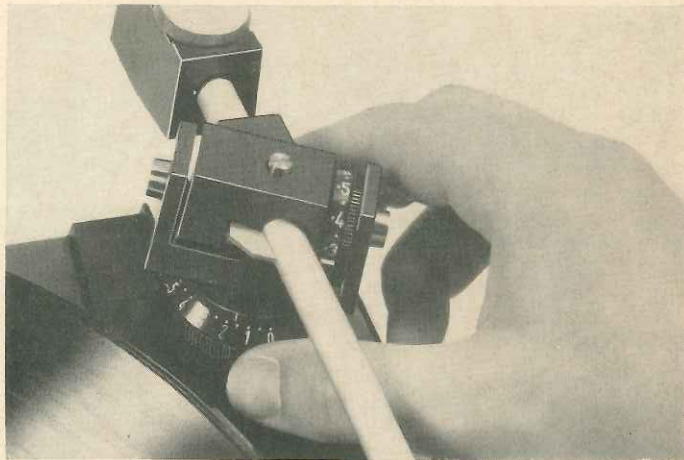


Anti-skating compensation

The anti-skating provision built into the Dual 1014 tonearm system compensates for the tendency of tonearms to "skate" toward the center of the record. As skating force is directly related to tracking force, dial the anti-skating compensation number to the corresponding number previously set on the tracking force scale. (When set at 0, anti-skating is inoperative.)

Tonearm setdown adjustment

The tonearm of the Dual 1014 has been set at the factory to descend accurately into the lead-in groove when operated automatically. But if you observe on first play that the dimensions of your cartridge and / or the location of its stylus cause the latter to touch the record either too far in or too far out, the adjustment can be made simply. Set the record-size selector switch to 7" (17 cm). This will expose adjustment screw next to the tonearm rest. With a 7" record on the turntable, start the unit. If the stylus touches down on the recorded grooves, turn the screw counterclockwise. If it touches down outside the lead-in grooves, turn the screw clockwise. A very slight turn is all that's needed.



Operation

Note: Because of the extremely free action of the automatic trip lever, it is apt to be shifted out of position whenever the Dual has been jostled, as in travelling. Thus, after installation and each time after being moved, the unit should be started with the tonearm in **locked** position. Simply push the operating slide switch to "start".

Single records

Use the short spindle. Select the correct speed and record indexing size for the record to be played.

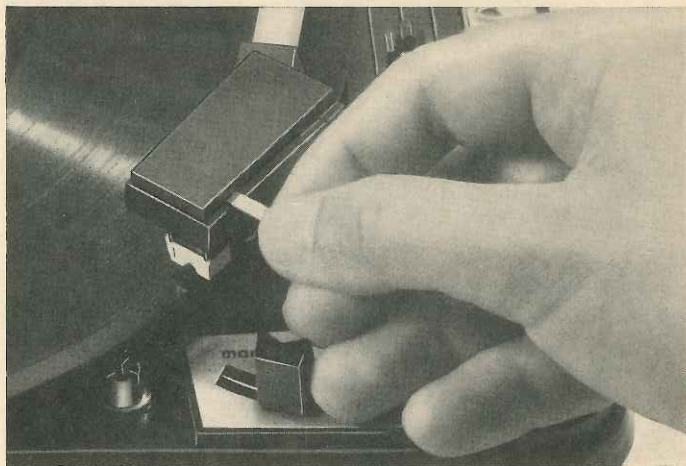
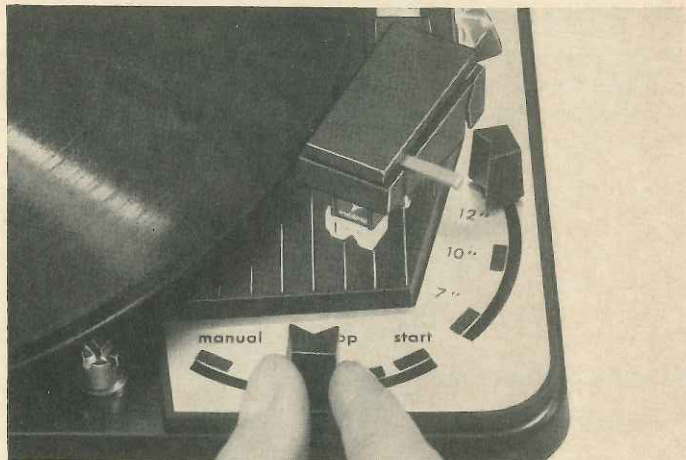
Now unlock the tonearm.

For automatic start: slide the operating switch past "stop" to "start".

For manual start: lift the tonearm and move it toward the record, then slide the switch to "manual". The tonearm can also be placed on the motionless record and the switch then pushed to "manual". (Note how fast the turntable reaches full speed.)

To stop play: slide the switch to "stop" or simply lift the tonearm and place it on its resting post.

To interrupt play and begin again: slide the switch to "start".



Automatic record changing

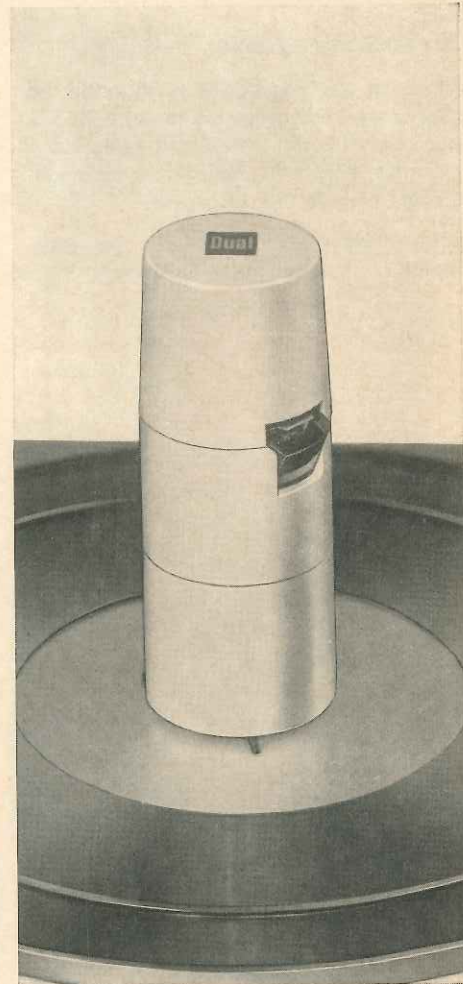
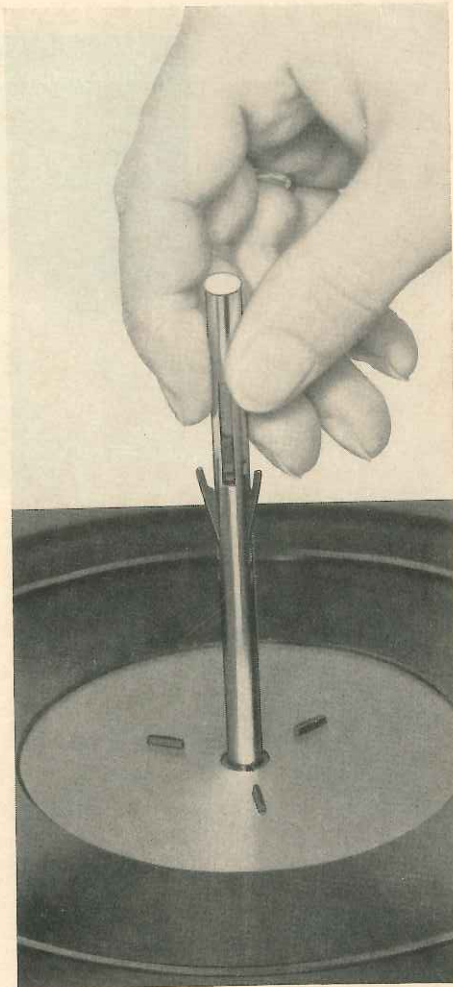
Remove the single play spindle and insert the changer spindle, placing the key at its base into the slot of the shaft and then turning the spindle clockwise until it stops. Up to eight records of the same size and speed can be stacked at one time.

After selecting the correct speed and record indexing size for the records to be played, push to "start".

For 17 cm records with the large center hole, Dual offers a special changer spindle, AS 9, which is inserted exactly like the standard changer spindle.

To stop play: either push to "stop" or lift the tonearm and place it on its resting post. To interrupt the record in play and change to the next record on the spindle: push to "start".

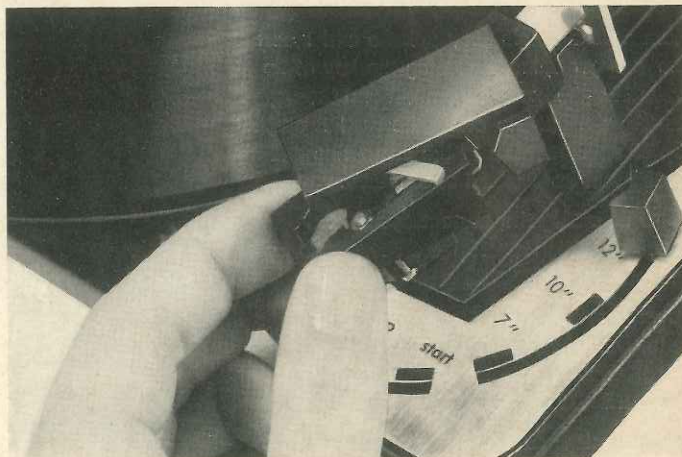
At the end of each play, regardless of the mode of operation, the motor drive pulley and the idler automatically disengage after play, thus preventing any possibility of flat spots developing on the idler wheel. (Thus, there is no need for a zero position on the speed selector switch.)



To replace cartridge

Hold the cartridge holder as shown in the photograph and press the tonearm lift to the rear. This will immediately release the cartridge holder. To replace the cartridge holder, reverse this procedure.

All cartridges with standard $\frac{1}{2}$ " mounting holes can be used in the Dual 1014.



Dual

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