

*worthy of
the finest
in music...*



The United Audio DUAL-1006 combination turntable/changer

The Dual-1006... superbly designed and engineered to fulfill the stringent requirements of the stereophonic record... with unprecedented versatility and simplicity of operation

The dramatic development of stereophonic sound brought music into the home with the exciting spaciousness, color and reality formerly enjoyed only within the concert hall itself. But for truly fine stereo record reproduction, it soon became apparent that one needed playback equipment of significantly higher standards than had been previously acceptable in the monophonic era.

When the stylus descends to the groove of the two-channel stereo record, it must track with less force and far more accuracy than ever before. Only then can it have sufficient compliance to follow the contours of both channels without introducing audible distortion or causing excessive wear to the delicate grooves.

Another important consideration in stereo is vertical rumble... resulting from noises and vibrations that originate in either motor or turntable. With the mono cartridge, responsive only in the lateral plane, this is not a problem. But with the stereo cartridge, responsive in both lateral and vertical planes, it definitely is. And none of these problems can be solved by merely wiring the tonearm to accommodate a second signal.

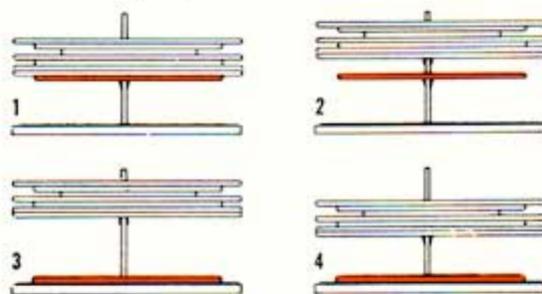
No wonder then, the enthusiasm with which the Dual-1006 was received when first introduced. No warmed-over version of a monophonic model, the Dual-1006 was a totally new precision machine, capable of meeting or exceeding every standard imposed by the stereo record. The rest is history. Many consumer and technical publications, cartridge and amplifier manufacturers, and noted consumer reporting organizations have all subjected the Dual-1006 to exacting tests under both home and laboratory conditions. THEIR FINDINGS: as a manual or automatic turntable, and as an automatic changer truly capable of the finest stereo or monophonic reproduction... the Dual-1006 is in a class by itself.

TO KNOW THE DIFFERENCE- AS THESE EXPERTS DO -IS TO SELECT THE DUAL-1006

For its gentle handling of all records:

ELECTRONICS WORLD (Sept., 1959) ... "This method (elevator-action changer spindle) does not chip the edges of records nor enlarge the center holes as may be done with other types of changers."

The unique principle of the elevator-action changer spindle eliminates all need for pusher arms, stabilizers and spindle offsets. The elevator action lifts the entire stack off the bottom record so that no weight is pressing on it when it is released to descend to the turntable. A further advantage: all records on the spindle may be removed or interchanged at any time, even while a record is in play.

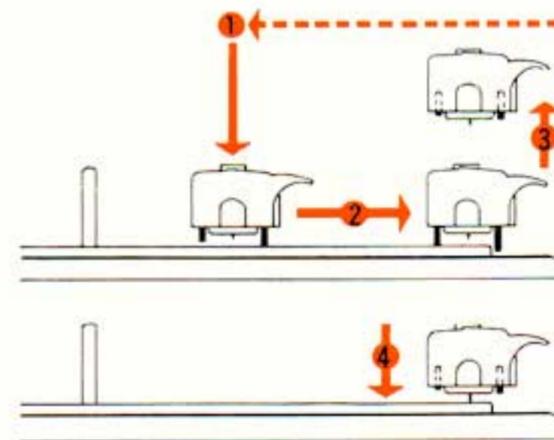


1. Record stack ready to play. 2. Stack separates from bottom record. 3. Bottom record descends. 4. Stack gently lowers for next play.

For its foolproof record indexing:

EDWARD TATNALL CANBY in AUDIO (Sept., 1959) ... "the most startling thing about the Dual changer is the unique 'feeler' mechanism, which tells the stylus where to drop for any size record, standard and all sizes in between... has been working entirely satisfactorily for me to date without the slightest damage to records and stylus... the 'fall-off' principle is infallible, since it measures every record

impartially for size without preconceived notions, and this is clearly a good idea...



1. When start button is pressed, tonearm moves toward center. 2. With wheels down, arm glides lightly over the surface until outer wheel locates exact outer edge. 3. Arm rises and wheels retract. 4. Arm gently descends to play.

This foolproof method of record indexing allows intermixing of all size records in any sequence (thus no problems from under and over-size "standard" records). When the arm is measuring a record, it is completely free floating... the rotation of the record itself causing the soft neoprene-rimmed roller-feeler guides to move towards the outer edge. Can't miss!

For the utter silence of its operation:

POPULAR ELECTRONICS (April, 1960) ... "the motor is so quiet that the listener practically has to wrap his ear around it to hear it. And in contrast to most changers, touching the base plate while the motor is running reveals only a barely detectable vibration."

The Dual's high quality four pole precision motor is mounted with the exclusive "rigid equipoise suspension" that eliminates all rumble—lateral and vertical—at the source. Hum is prevented by thorough shielding and a full-jacket, high permeability motor core. The rotor is oscilloscope balanced and set in extra-large costly self-aligning ball bearings.

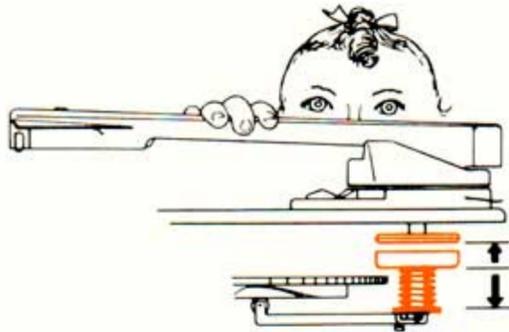


For the perfection of its tracking:

PICKERING (July 17, 1959) ... "tests included all customary measurements... including 'torture tests' designed to show up any malfunctioning of the pickup when in record changer operation... all made at 3 grams using D-3707A (manual) stylus... tracking was all we could ask for, and the trip mechanism functioned smoothly even at this very light tracking force..."

The Dual's completely free-floating tonearm can actually track and trip at as low as 1½ grams, allowing you to use the most sensitive turntable cartridges with high compliance styli not ordinarily recommended for automatic equipment. This ensures minimum wear and maximum life for all records... especially stereo.

There are no mechanical linkages to the arm to cause stylus drag or variation in stylus force at different points on the record.



Except when engaged by the ingenious slip clutch during cycling, the arm remains completely free. It may be restrained during cycling without damage, and may be lifted



from the record at any time during either manual or automatic operation.

The tonearm's one-piece box-girder construction eliminates resonances and cartridge output distortion common to two-piece arms. A double set of ball bearings in each axis provides the perfect arm motion—lateral and vertical—so vital for stereo tracking.

For its phenomenally low flutter and wow:

LARRY ZIDE in THE AMERICAN RECORD GUIDE (June, 1960) ... "Flutter and wow were the lowest I have yet found in an automatic machine. I tried some 16⅔ disks and found that music at this speed was as free from flutter and wow as it is on a good many changers and manual players at the conventional speeds."

The unusually high power of the motor enables the turntable to reach full rpm in less than ¼ turn from dead start... and to maintain constant speed even under full load conditions.

The laminated and concentrically girded turntable can't go out of round, can't warp. Its especially deep axle shaft prevents wobble, and is embedded in a heavy duty ball bearing assembly for virtually frictionless, non-resonant rotation.

For its many operating features:

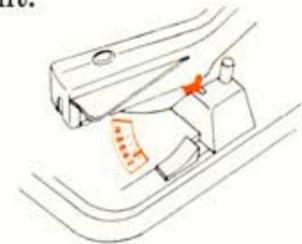
EDWARD TATNALL CANBY in AUDIO (Sept., 1959) "... it will do more things that please me than any 'changer' so far."

MODERN HI FI (Winter, 1960) "... most versatile changer on the market today."

FOUR SPEED TRANSMISSION WITH AUTOMATIC DISENGAGEMENT: 16⅔, 33, 45 and 78 rpm, plus separate cycling transmission for rapid change action regardless of playback speed. All drive wheels and the idler disengage automatically after every play. No adjustments, no neutral to remember, no worry about "flat spot thump."

PUSH BUTTON CONTROLS: Three buttons let you start, stop, reject, or repeat automatically. (You can either repeat the same record indefinitely, or just once with the self-cancelling REPET button.) Separate start and stop switches give you unrestricted manual operation.

BUILT-IN STYLUS FORCE MEASURING GAUGE Direct reading, easy to use, and conveniently located for instant check. Especially valuable when using different cartridges. Offers fingertip accessibility for a wide range of weight adjustment.



LOCK-IN CARTRIDGE HOLDER: Allows you to change cartridges instantly, effortlessly. Takes all standard-size stereo and monophonic cartridges.

MULTI-PURPOSE STEREO/MONO SWITCH: Instantly adapts stereo cartridges for mono output, eliminating random noises from vertically unrecorded grooves of monophonic records. Also, very convenient for balancing stereo speaker systems.

... and for its total superiority:

LARRY ZIDE in THE AMERICAN RECORD GUIDE (June, 1960) ... "compares favorably with the best manual turntables in all respects."

HI FI SYSTEMS (Fall, 1959) ... "best unit in its class, regardless of price."

GEORGE KLUGE in METRONOME (July, 1960) ... "combines precision quality and engineering with functional perfection... offers all the advantages of the highest quality changer plus the precision and dependability of a quality turntable."

Located in the Black Forest, heart of the European clock and precision tool industry, Dual has been a pioneer in record player design for over fifty years. Their exceptional talent for precision engineering originated even earlier, in the production of finely-wrought clock parts. Up to this day, Dual maintains its own four year training program from which every technician must be graduated. Thus is continued the long tradition of fine craftsmanship that distinguishes every product of Dual.

**“We suggest
that anyone who
is interested
in a record
changer for stereo
hi-fi operation
make sure that the
dealer demonstrates
this one for you.”**

ELECTRONICS WORLD, Sept. 1959

This guide to the actual operation of the Dual-1006 has been prepared to help you submit the machine to your own critical test. When you have done so, we believe you too will “know the difference” . . . and select the Dual-1006 for your finest records.

Model 1006—Supplied with single play and changer spindles, 2 cartridge holders, adapter disc for 45's, instructions, template. Dimensions: 10 $\frac{3}{4}$ " x 13". Clearances: 3" below, 6" above. 110 v/220 v, 60 cy. A.C. (50 cy. available). \$79.95 user net.

Model WB-2—Wood Base pre-cut, ready to install. Available in mahogany or walnut finish. \$6.95 user net.

Model AS-6—45 RPM Automatic Spindle, for playing stack of ten 7" records without center hole inserts. \$4.80 user net.

Prices subject to change. West coast prices slightly higher.

united  audio

WIGO • PRODUCTS OF DISTINCTION • DUAL
12-14 West 18th St., New York 11, N.Y.

SINGLE PLAY TURNTABLE

(use short spindle)

NOTE: the Dual's tonearm, like most professional arms, does not lift up. In handling it, do not attempt to force it up beyond the normal scope of its free movement.

To start with a motionless turntable:

Lift tonearm off its resting post and place it anywhere on the record, as if cueing in a particular band. Then push the MANUAL switch forward. (Note how rapidly the turntable reaches full speed.)

To interrupt the record and leave stylus in groove:

Depress tonearm resting post, and touch the edge of the record with your finger to stop the near-frictionless rotation of the turntable.

To start record again where play had been interrupted:

Push MANUAL switch forward.

To stop machine (and disengage drive wheels):

Either lift arm and place on resting post, or simply press STOP button.

To start with a rotating turntable:

Push the MANUAL switch forward, then lift tonearm off its resting post and place stylus anywhere on record.

To start automatically:

Press START button. The tonearm will rise, index the record and begin play precisely in the lead-in groove.

AUTOMATIC CHANGER

(use changer spindle)

Simply replace single play spindle with changer spindle. (Insert spindle key in small slot and then turn clockwise, without forcing, until it stops). That's all there is to it. Now you may place up to ten various-sized records of the same speed on the three-pronged platform. (Tracking force from the first to last record will vary less than .5g).

To play the first record:

Press START button.

To interrupt and replay the same record from the beginning:

Press REPET and then START.

To interrupt play and change to next record on stack:

Press START.

To stop machine without changing records:

Depress tonearm resting post and stop the record by touching the edge with your finger.

To begin play with record already on turntable:

Push MANUAL switch forward.

To skip next record:

Press STOP and then START.

For continuous repeat of same record:

Remove other records from spindle and place 45-rpm center hole adapter upside down on the three-pronged platform. Press START.