

NOVATRON

MODEL 400FX SOUND EFFECTS CONSOLE



NOVATRON by Streetly Electronics Limited

NOVATRON 400FX

The NOVATRON 400 FX provides direct injection of sound effects into motion pictures, films, television and sound broadcasting at either the re-recording (dubbing) stage, at the initial recording stage, or in direct transmission.

Over 1,260 specially selected sound effects, compiled from the B.B.C. Library, available.

Sound effect always commences at correct start of modulation.

Individual spot effects can be played together in exact synchronisation.

Fully programmed sequences, using a pre-arranged key pattern, for complete sound control of moving vehicles, trains, aircraft, boats, etc.

Post-synchronisation of footsteps, door-slams, explosions, etc. can be achieved by even an inexperienced operator.

Piano keyboard for ease of operation.

Running speed is variable $\pm 20\%$ to vary pitch and speed of any effect.

Pre-fade listen facility.

DESCRIPTION

Briefly, the NOVATRON is a short duration magnetic store of sound effects, single, combined or sequential, and can be used as a store for speech information, translation, reference, wave form or digital data and many other purposes.

All recordings are available for instant recall by pressing the appropriate keys. Once tapes are recorded, installed and timed, starting attack is instantaneous, there is no searching, concentration or cueing required.

The 1,260 sound effects available are from the extensive Library of the British Broadcasting Corporation and are stored on 12 separate tape frames, each containing 105 sounds recorded on 35 tapes of three tracks on 3/8" wide tape. The exchange of alternative frames in the NOVATRON is an easy operation requiring no tools or special skill and can be accomplished in two minutes.

CONTROLS

These are situated on the lefthand side of the keyboard and comprise track selection, pitch control with a plus or minus 20% variation from the standard 7½ i.p.s. tape motion, and of course the usual fader. Additionally there is a volume control for the independent pre-fade listen amplifier which feeds a G.P.O. type 3-circuit jack socket for headphones.



MODEL 400FX WITH LID REMOVED

CONSTRUCTION

The mechanism is assembled on a robust metal frame and housed in a strong wood cabinet. The lid is clipped into position and is easily removable for instant access to the mechanism which facilitates quick tape frame changes. A 35 note piano type keyboard is provided for easy operation and on the left hand side is the control panel comprising ON/OFF Switch, Track Selector, Volume and Pre-fade listen Controls and Tape Speed Control. The Power Unit and Amplifier are of sturdy construction and the audio output is isolated via a one-to-one output transformer to avoid earth loop.

OPERATION

The keys on the piano keyboard control individual sounds. Many of the keys combine to form a related sequence. For instance, with the motor car effects adjacent keys pressed in sequence provide CAR-DOOR SLAM, START, TICK-OVER, DRIVE OFF, CONSTANT RUNNING, APPROACH, RECEDE, APPROACH AND STOP, TYRE SQUEAL. Similarly, for Aircraft a sequence can provide for TAXI, TAKE OFF, CONSTANT FLIGHT, LANDING, WHEEL SKID, REVERSE THRUST ETC. With a little programme preparation the required sounds can be available at finger tip readiness for instantaneous reproduction. This is a great step forward from record-library manipulation. By simple operation the necessary sound effects can be fitted exactly to any film sequence, video tape or direct broadcasting without any intermediate process.

Where conventional re-recording or dubbing techniques are preferred the 400 FX can be used as a readily available source of sound effects for track laying.

Playing time for each tape is 8 seconds, immediately repeatable when the key is released. Should the key be held down for longer than 8 seconds no damage will occur as the tape drive will slip until the key is released.

RECORDING YOUR OWN SOUNDS

The 3/8" wide tape used in the NOVATRON is non-standard but is readily available from Streetly Electronics Limited. To simplify the use of the instrument for customers we can supply a 1/4" tape guide conversion kit which allows the NOVATRON to play 1/4" standard tape, recorded either with 2 track or full track. The unit then uses standard recordings of any origination. Recorded tapes are edited and installed simply upon tape frames which are readily available for this use and can be supplied in a substantial carrying case.

DATA SUMMARY

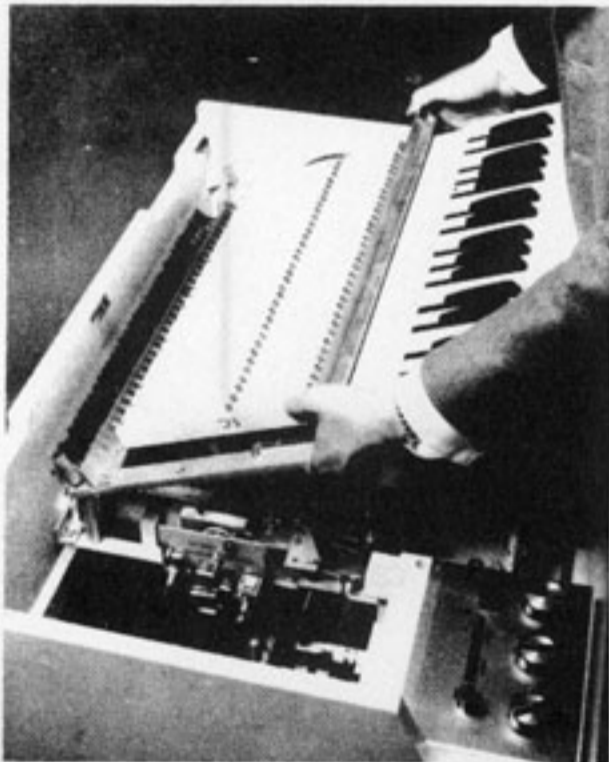
Power Supply:	100V to 250V, 50Hz to 60Hz, single phase. Consumption peak 100VA.
Channel Output:	Single output balanced. OdBm into 600 ohms, permitting + 8dBm peaks.
Signal to Noise Ratio:	At Maximum gain, 35 heads — 60dB Ref: 0dB.M
Tape Width:	3/8" triple track or 1/4" (with special tape guides).
Tape Velocity:	Normal 7 1/2 ips. Variable speed range \pm 20%.
Drive System:	Capstan and servo-corrected d.c. shunt motor. SMS2 type variable Capstan Control.
Wow and Flutter:	Better than 0.2% total r.m.s.
Distortion:	Better than 2% total harmonic at + 8 dBm.
Connector:	Power supply lead with Cannon XLR-LNE-11C. Headphone output: British Post Office tip ring sleeve jack. Channel output: Cannon XLR-3-31
Size:	34" (86cm) HIGH 34" (86cm) WIDE 22" (56cm) DEEP.
Weight:	112 lbs. (55Kgs.)

SOUND EFFECTS — AVAILABLE in the following main groups

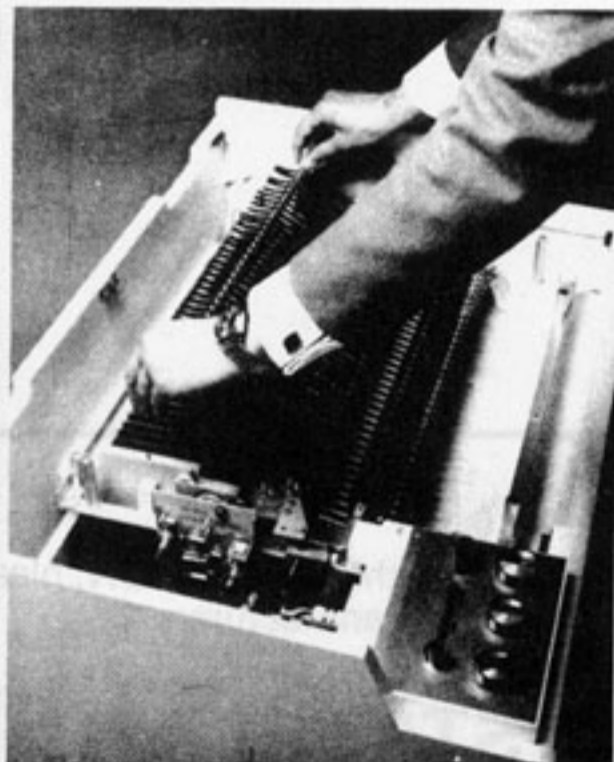
Aircraft	Crowds	Insects	Telephone
Animals	Doors	Marine	Traffic
Babies	Footsteps	Motor Vehicles	War
Bells	Fighting	Office	Water
Birds	Fires	Prison	Weather
Clocks	Household	Sports	Miscellaneous Groups
Crashes	Industrial	Trains	

— AND, OF COURSE, THE COMPLETE RANGE OF NOVATRON MUSICAL TAPES

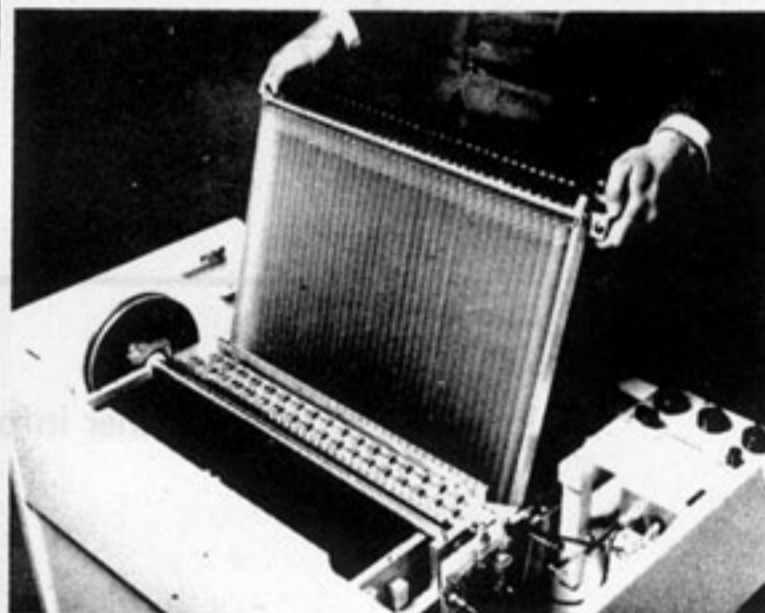
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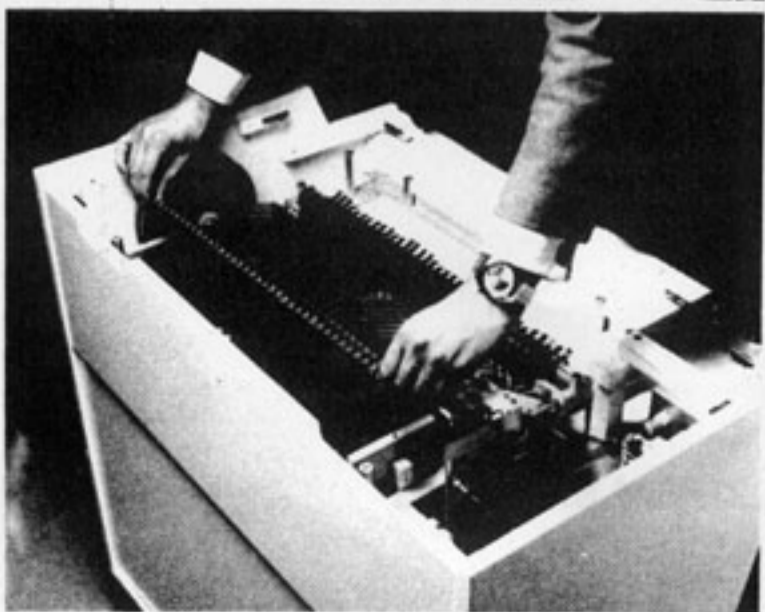
2



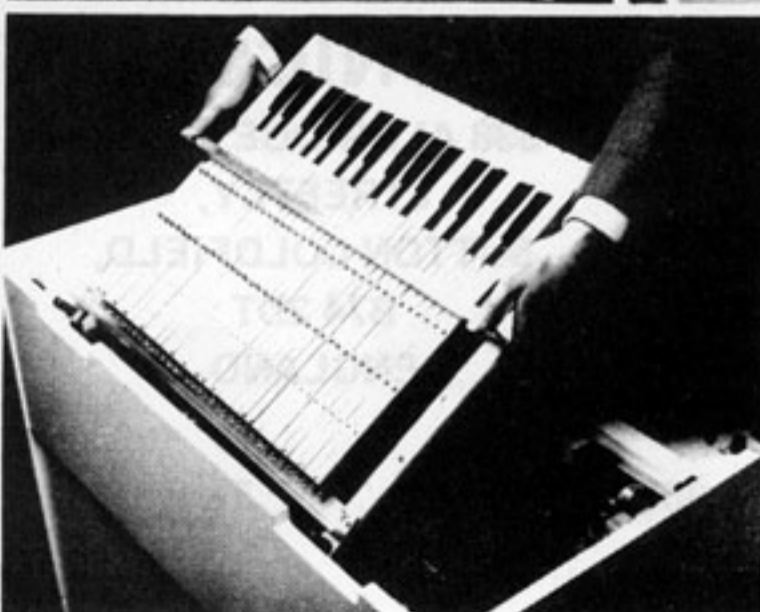
3



4



5



Changing the Tape Frame

1. Removing keyboard.
2. Releasing tape clamp bar and storing in slots on tape frame.
3. Removing tape frame.
4. Replacing tape clamp bar in operating position.
5. Replacing keyboard.

The Unique and Versatile

NOVATRON 400FX

An absolute necessity for all:

- **RECORDING STUDIOS**
- **FILM STUDIOS**
- **TELEVISION STATIONS**
- **RADIO STATIONS**

Dealers, Agent or Representative

For further information on the NOVATRON, please write or call
the manufacturers:

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