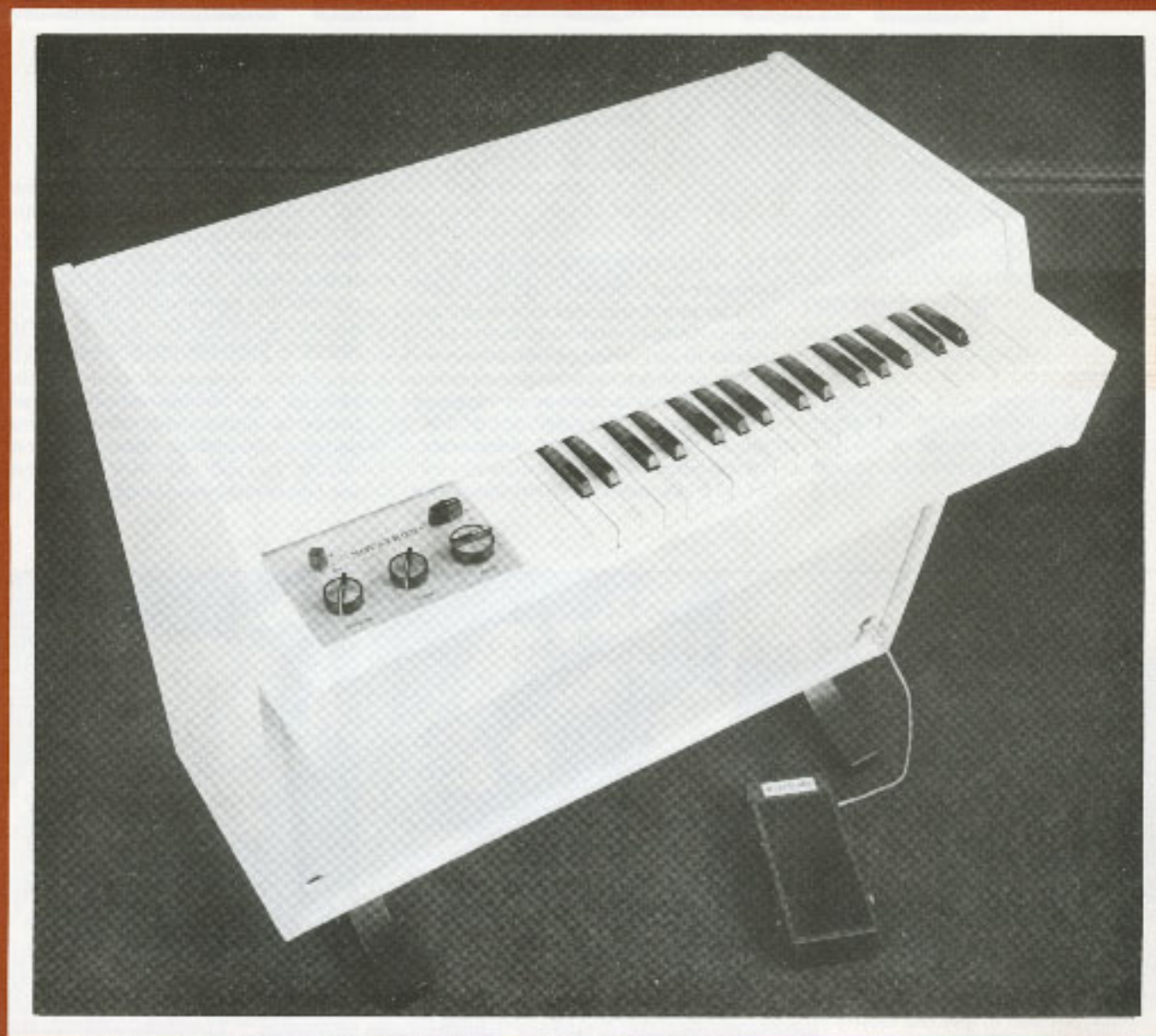


NOVATRON

The sounds of real instruments



NOVATRON by Streetly Electronics Limited

NOVATRON

Introduction

The NOVATRON falls into no known category but is perhaps best described as a series of controlled tape machines manipulated by keyboard. Each key relates to and, when played, activates a tape on which has been pre-recorded a single note of an orchestral instrument. For example: if the player has chosen say, FLUTE, and one key is depressed, he will hear the sustained note of one FLUTE – a real FLUTE! If then a five

note chord is played, the sound of five FLUTES will be heard playing in harmony. The same applies to VIOLINS or any other pre-recorded sound on the NOVATRON. The NOVATRON thus provides the player with the capability of playing and fashioning "live" orchestral sounds in a manner not previously possible.

In addition to single instrument recordings, tapes can also be obtained with complete orchestral sections, choir patterns, rhythm patterns, and a whole library of sound effects. You and your NOVATRON are only limited by your imagination.

Miscellaneous features and specifications

The Electronic Pitch Control

The NOVATRON 400SM is fitted with a specially designed Rock steady non-temperature sensitive speed control, type SMS2. In the centre position, all instruments will be at Concert Pitch. Rotation of this control will give a pitch variation of $\pm 20\%$. The purpose of this control is not only to allow the NOVATRON to be tuned accurately, but also to give the facility for special effects and dramatic changes of key and pitch.

Amplification

The NOVATRON 400SM has no built-in main amplifier or loudspeaker system but is designed to connect directly into any external amplifier system or a mixing console. A direct Line Output jack is provided for this purpose.

HEIGHT: 34" (86 cm)
WIDTH: 34" (86 cm)
DEPTH: 22" (56 cm)
WEIGHT: 122lbs. (55 kg)

Power Supply: Transformer tapped at 115V, 220V, 240V 50 or 60 cps. Single phase.

Consumption: 75 VA

Outputs: Unbalanced line output via foot swell pedal. 3 volts into 600 Ohms without foot swell pedal.

Panel Controls:
Illuminated ON/OFF Switch
TRACK SELECTOR CONTROL
GAIN CONTROL
TONE CONTROL
ELECTRONIC PITCH CONTROL

Signal to Noise Ratio:
Better than -58dBm

Tape Velocity:
Normal 7 $\frac{1}{2}$ i.p.s.
Variable speed range $\pm 20\%$

Reproduce:
50 Hz-12kHz $\pm 3\text{dB}$

Frequency:
Reproduce characteristic modified NARTB standard.

Tone Control:
10 dB cut at 10 kHz.

Reproduce Heads:
Low impedance:
3 MH: 35 in total.

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Tapes

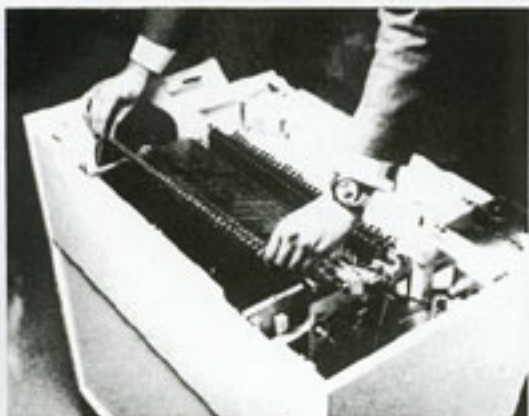
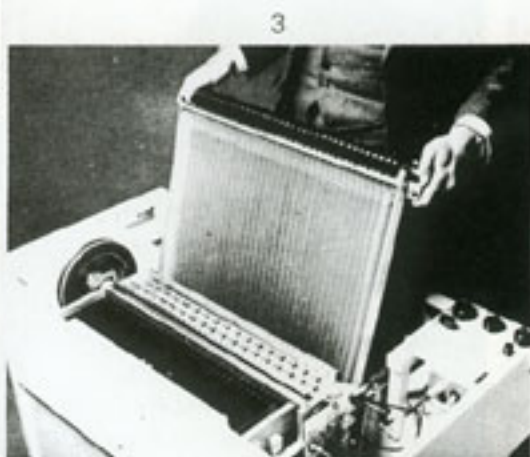
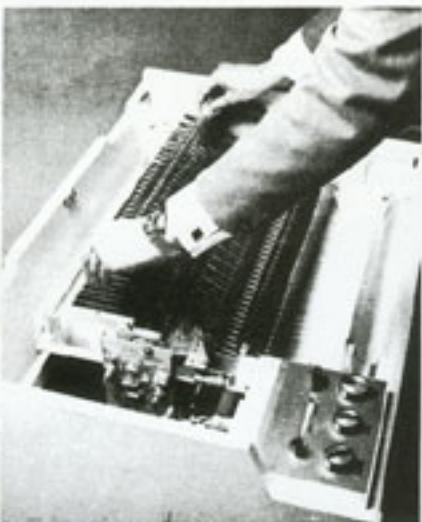
The standard NOVATRON 400SM provides three basic sounds namely; FLUTE, VOILINS and CELLO recorded on three tracks of a 3/8" wide magnetic tape. Any one of these sounds may be immediately selected by means of the Track Selector located on the Control Panel. The Track Selector Control also enables the player to mix and balance sounds placed on adjacent tracks. For example: If the FLUTE track is first selected and played only

the FLUTE will be heard. However, by rotating the Track Selector Control gradually, VIOLINS will be slowly introduced. Further rotation of the Control will give the effect of fading the FLUTE until only the VIOLINS are heard. The same applies to all sounds placed on adjacent tracks.

These tapes are mounted on a vertical frame known as the Removable Tape Frame. Any number of these tape frames may be purchased so that a library of sounds can be built up as required. The NOVATRON 400SM has been so designed that a tape frame featuring a whole new "bank" of sounds can be replaced in two minutes

(without the need for any tools). In addition to the standard sounds of VIOLIN, CELLO and FLUTE, the following instruments and combinations are available: SAXOPHONE, CHOIR VOICES, CHURCH ORGAN, VIBRAPHONE, GUITAR, STRING SECTION, SYNTHESIZED BRASS, SOUND EFFECTS, and many others. Refer to tape list overleaf.

To facilitate making up your own recordings, a Conversion Kit can be supplied so that 1/4" full track or two track recordings will be accepted. This means that the NOVATRON 400SM may be used to reproduce any sound recorded on standard play 1/4" tape at 7.5 I.P.S.



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.

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Products ● Protector Muff ● Tape Frames ● Tapes on Frames ● Tapes on Spools ● ¼" Tape Guide Conversion Set
 ● Swell Pedal ● Tape Frame Fibre Carrying Case ● Attenuator

LIST OF TAPES AVAILABLE

| Tape No. | Track A | Track B | Track C | Tape No. |
|----------|--|--|--|----------|
| 1. | Trumpet (Synthesised) | Trombone | 8 Choir (4M/4F Unison) | 1. |
| 2. | 8 Choir (4M/4F Unison) | Violins | Brass 1-18 Two trombones, 19-35 Two trumpets | 2. |
| 3. | Flute | String section | 8 Choir (4M/4F Unison) | 3. |
| 4. | Violins | 8 Choir (4M/4F Unison) | Mixed Brass B | 4. |
| 5. | Flute | Violins | 8 Choir (4M/4F Unison) | 5. |
| 6. | Vibes | 8 Choir (4M/4F Unison) | Church Organ | 6. |
| 7. | Mixed Brass B | 8 Choir (4M/4F Unison) | Church Organ | 7. |
| 8. | Violins | Cello | 8 Choir (4M/4F Unison) | 8. |
| 9. | Male & Female Choir 1-17 Male, 18-35 Female | String section | Flute | 9. |
| 10. | Male Choir | Violins | Cello | 10. |
| 11. | String section | Choir (15 Mixed) | Mixed Brass B | 11. |
| 12. | String section | Boys Choir | Flute | 12. |
| 13. | Boys Choir | Violins | Trumpet (Synthesised) | 13. |
| 14. | Moog Brass | Sax Solo | Boys Choir | 14. |
| 15. | String section | Flute | Cello | 15. |
| 16. | Flute | Violins | Male & Female Choir 1-17 Male, 18-35 Female | 16. |
| 17. | Flute | Tenor Sax | Oboe | 17. |
| 18. | Flute | Violins | Cello | 18. |
| 19. | Flute | Violins | Mixed Brass B | 19. |
| 20. | Mandolin | Bassoon | Clarinet | 20. |
| 21. | Vibes | Church Organ | Hammond - Slow Leslie | 21. |
| 22. | Guitar | Violins | Brass 1-18 Two trombones, 19-35 Two trumpets | 22. |
| 23. | Oboe | French Horn | Orchestra | 23. |
| 24. | Withdrawn | | | 24. |
| 25. | Hammond - Slow Leslie | Brass 1-18 Two trombones 19-35 Two trumpets | Cello | 25. |
| 26. | Orchestra | 8 Choir (4M/4F Unison) | Selection of sound effects | 26. |
| 27. | Vibes | Guitar | Hammond - Slow Leslie | 27. |
| 28. | Church Organ | Cello | 8 Choir (4M/4F Unison) | 28. |
| 29. | 8 Choir (4M/4F Unison) | Violins | Cello | 29. |
| 30. | Flute | Moog Brass | Violins | 30. |
| 31. | Brass 1-18 Two trombones 19-35 Two trumpets | Violins | 8 Choir (4M/4F Unison) | 31. |
| 32. | Moog | Moog | Moog | 32. |
| 33. | Trombone | Trumpet (Synthesised) | String section | 33. |
| 34. | Trombone | Trumpet (Synthesised) | Cello | 34. |
| 35. | Mixed Brass B | 8 Choir (4M/4F Unison) | String section | 35. |
| 36. | Flute | Brass Section Mixed | String section | 36. |
| 37. | Violins | 8 Choir (4M/4F Unison) | Church Organ | 37. |
| 38. | Mixed Brass B | String section | 8 Choir (4M/4F Unison) | 38. |
| 39. | Flute | Tenor Saxophone | Brass 1-18 Two trombones, 19-35 Two trumpets | 39. |
| 40. | Trombone | Brass 1-18 Two trombones 19-35 Two trumpets | Saxophone 1-18 Two Tenor 19-35 Two Alts | 40. |
| 41. | Male & Female Choir 1-17 Male, 18-35 Female | Male Voice Choir 1-17 French Horn 18-35 | Church Organ | 41. |
| 42. | 8 Choir (4M/4F Unison) | Male & Female Choir 1-17 Male Choir, 18-35 Female Choir | Boys Choir | 42. |
| 43. | Combined Brass | Augmented Choir | Second Flute | 43. |

Prominent users of this type of Instrument

| | | | | |
|--------------------|------------------|-------------|-----------------|-----------------------|
| Rolling Stones | Mahavishnu Orch. | Beach Boys | Procul Harum | Peter Yarrow |
| Moody Blues | Rick Wakeman | Hollies | Ground Hogs | Argent |
| Jefferson Airplane | 10 Years After | Strawbs | Led Zeppelin | Bobby Goldsboro |
| Yes | Elton John | Pink Floyd | Fleetwood Mac | Ray Stevens |
| King Crimson | Genesis | T Rex | John Lennon | Savoy Brown |
| Chicago | David Bowie | Jethro Tull | Cat Stevens | Stories |
| Alice Cooper | Raspberries | Spirit | Stevie Wonder | Al Kooper |
| Richie Havens | ELO | Kinks | Mike Pinder | Santana |
| Todd Rundgren | Wings | Traffic | George Harrison | Felix Pappalardi |
| Eric Clapton | Hawkwind | Greenslade | Jack Bruce | Babe Ruth |
| Oscar Peterson | Klaus Doldinger | Cavaliers | Demis Roussos | Barclay James Harvest |
| | | Octopus | Limelight | Grobschnitt |

Dealers Stamp

For further information on the Novatron, please write or call the manufacturers.

STREETLY ELECTRONICS LIMITED
 338 Aldridge Road, Streetly, SUTTON COLDFIELD,
 West Midlands B74 2DT England.
 Telephone: 021-353 3171 Telex: 338024 BIRCOM G
 (Prefix all messages STREL)