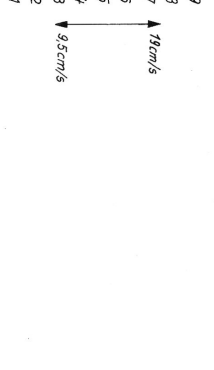
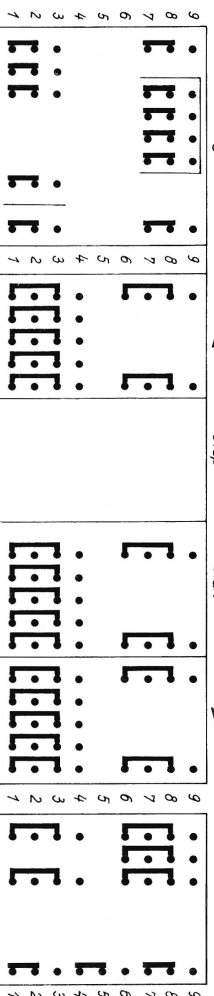
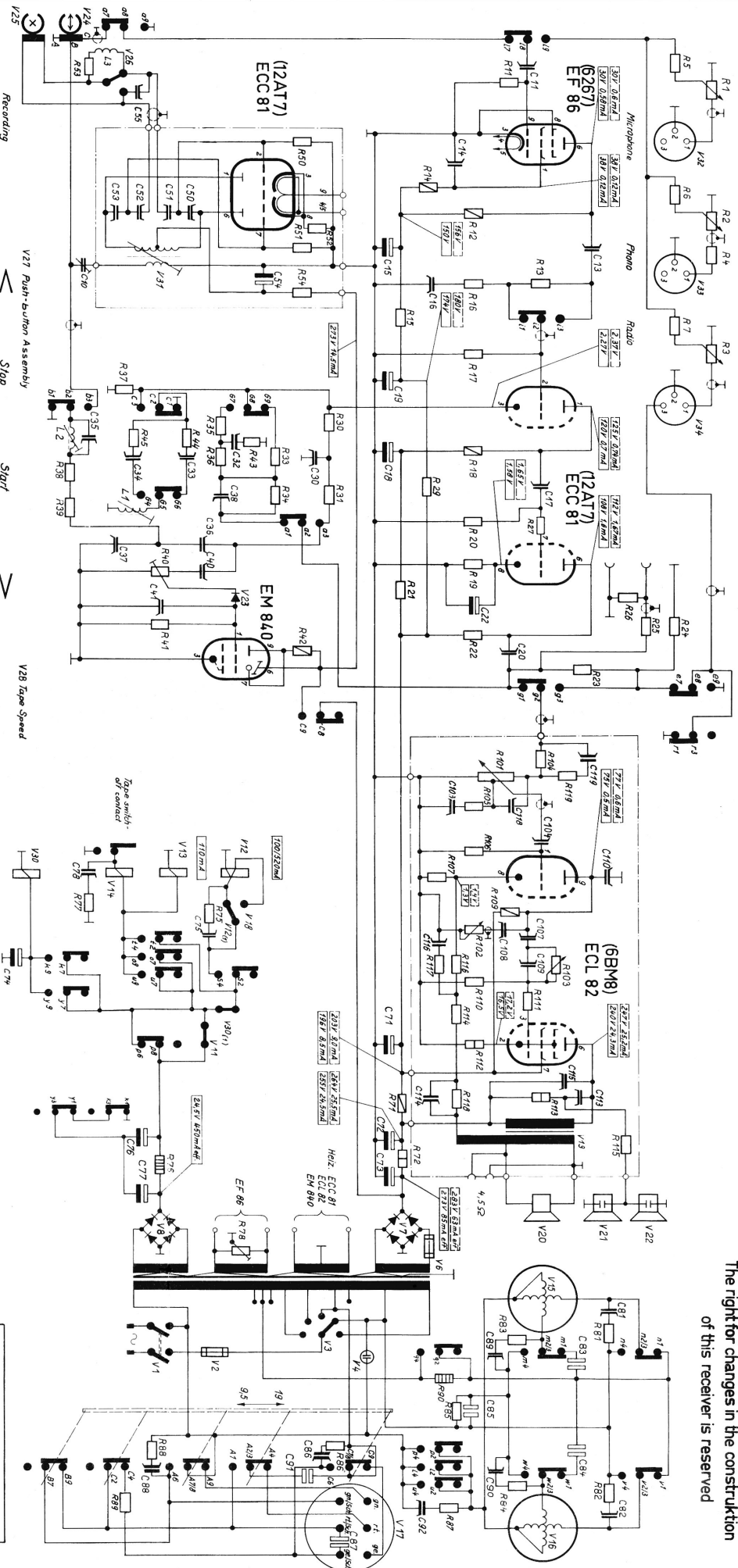


The right for changes in the construction of this receiver is reserved



Playback and Recording head

NORDMENDE Sterling
Tape-Recorder

9/900US

60HZ

LITAN



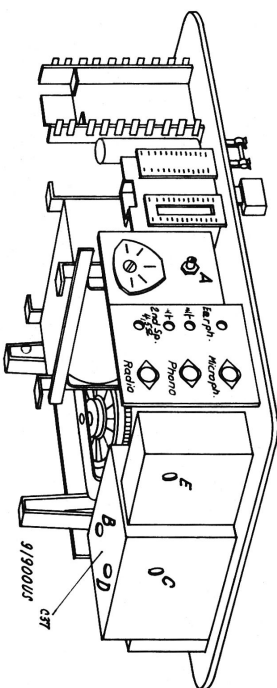
Novel-Valvet-socket

Alignment Instructions

- Hum Alignment**
Vacuum tube voltmeter to output "0.6 V/10 Kohm". Depress key "Start" and adjust control "A" to minimum reading.
- Sound Recording Range**
Tape speed 7-1/2"/s. Disengage erasor generator. Depress key "Recording" and turn microphone volume to maximum. 1 Kc/5mV to jack "Microphone". With control "B" adjust magic band to reach red marker.
- Alignment of low frequency resonance circuit L 1.**
Tape speed 7-1/2"/s. 17 Kc/0.5mV to input microphone. Disengage erasor generator. Insert precision adjusting resistor (20 ohm) into pickup head. Depress key "Recording". Align point "C" to maximum voltage reading on precision adjusting resistor.
- Alignment of Erasor Frequency**
Engage erasor generator. Depress key "Recording". Connect frequency meter to erasor head. At point "E" erasor frequency to 65 Kc.
- Alignment of high frequency rejector circuit L 2**
Turn input control to "0". Depress key "Recording". Connect vacuum voltmeter to test point condenser C 37 (between point "B" and "D"). Point "D" to minimum reading on condenser C 37.
- Correction of Premagnetizing Current**
Point "F" permits to change the amplitude of the premagnetizing current. Dependent of this are distortion percentage, high pitch, and equalizing level. At a tape speed of 7-1/2"/s. average value is 1 mA (equivalent 20 mV) measured on precision adjusting resistor (20 ohm).
- Alignment of Playback Head**
Load Tape. Tape speed 3-3/4"/s or 7-1/2"/s. Vacuum tube voltmeter to output "0.6 V/10 Kc". Depress key "Start". Point "G" output voltage reading maximum, frequency 6 - 8 Kc.

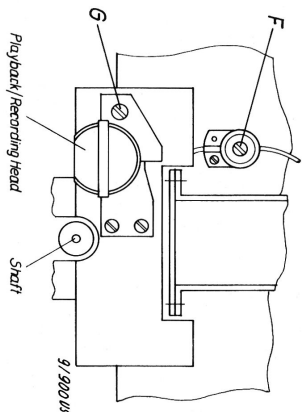
A = Potentiometer R18
B = Potentiometer R40
C = LF Resonance Circuit L1
D = HF Resonance Circuit L2
E = HF Oscillator Coil

Remove cover to make points B, C and D accessible.



Bottom view of chassis

F-Trimmer C10 Gap Alignment



View of head positions

Resistor-color-code			
Color A	Color B	Color C	Color D
Color A is the first identification # of resistor			
Color B is the second identification # of resistor			
Color C is multiplying factor			
Color D - Tolerance of resistance in %			
If D is omitted, tolerance is 20%			
The sequence ABC indicates the resistance value in ohms			
Color A	Color B	Color C	Color D
Black	0	1	10
Brown	1	2	100
Red	2	3	1000
Orange	3	4	10000
Yellow	4	5	100000
Green	5	6	1000000
Blue	6	7	10000000
Violet	7	8	100000000
Grey	8	9	1000000000
White	9	0	10000000000
Silver			±5%
			±10%

Power-Transformer 521.005.22

240V green	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
107 turns L0.45F	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
220V blue	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
235 turns L0.45F	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
165V orange	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
79 turns L0.45F	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
150V white	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
107 turns L0.45F	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
130V pink	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
107 turns L0.45F	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
110V yellow	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
189 turns L0.45F	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
75V	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
27 turns L0.45F	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
70V grey	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
27 turns L0.45F	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
63V without label	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
346 turns L0.45F	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
0 red	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
91900US	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F
black 0	19 turns L0.45F	19 turns L0.45F	19 turns L0.45F

Output-Transformer 522.009.13

primary	secondary
3990 turns	98 turns 0.5 Cu/enem
0.12 Cu/enem	34 turns 0.5 Cu/enem
yellow	91900US