

Larsholt

ELECTRONICS

This unique tuner-set combines a 4-diode front-end containing field effect (FET) transistors in the RF and silicon transistor as oscillator - and an IF-amplifier - thus offering the complete link of moduls between antenna and audio frequency amplifier.

It is of special interest to manufacturers of Hi-Fi equipment including high quality multiplex.

Since it is 4 circuit-tuned with a perfect internal screening it has a very good selectivity and rejections parameters.

Its mechanical form and size makes it easy to fit into any mechanical receiver design.

The tuning of the four circuits: Antenna, RF and oscillator is achieved through the use of capacitance diodes (instead of a variable condenser) thus offering features not available in older tuned units. The actual tuning to various stations is done through the varying of the diode bias voltages.

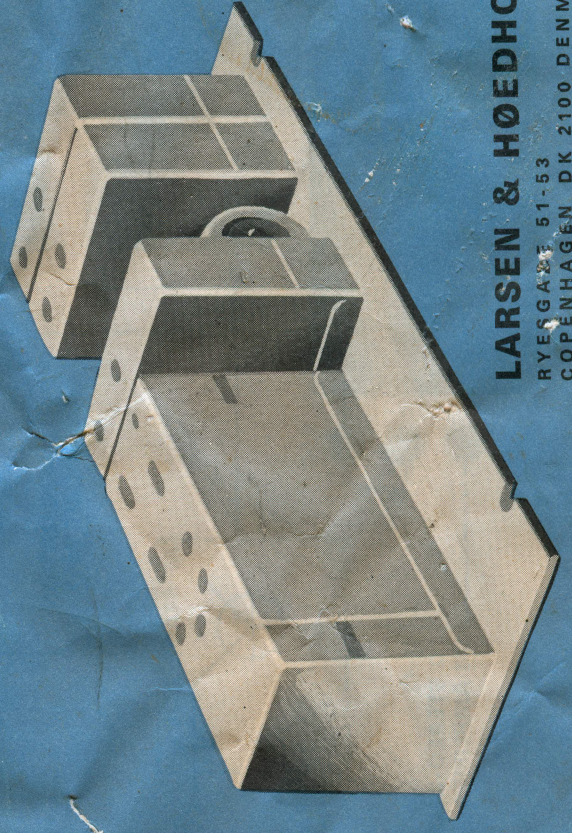
This system of tuning can offer the following:

- Push button selection of favourite stations by preadjusted trimmer-pots.
- Remote station tuning.
- Automatic scanning (sampling) of stations.
- Conventional tuningknob with dial.

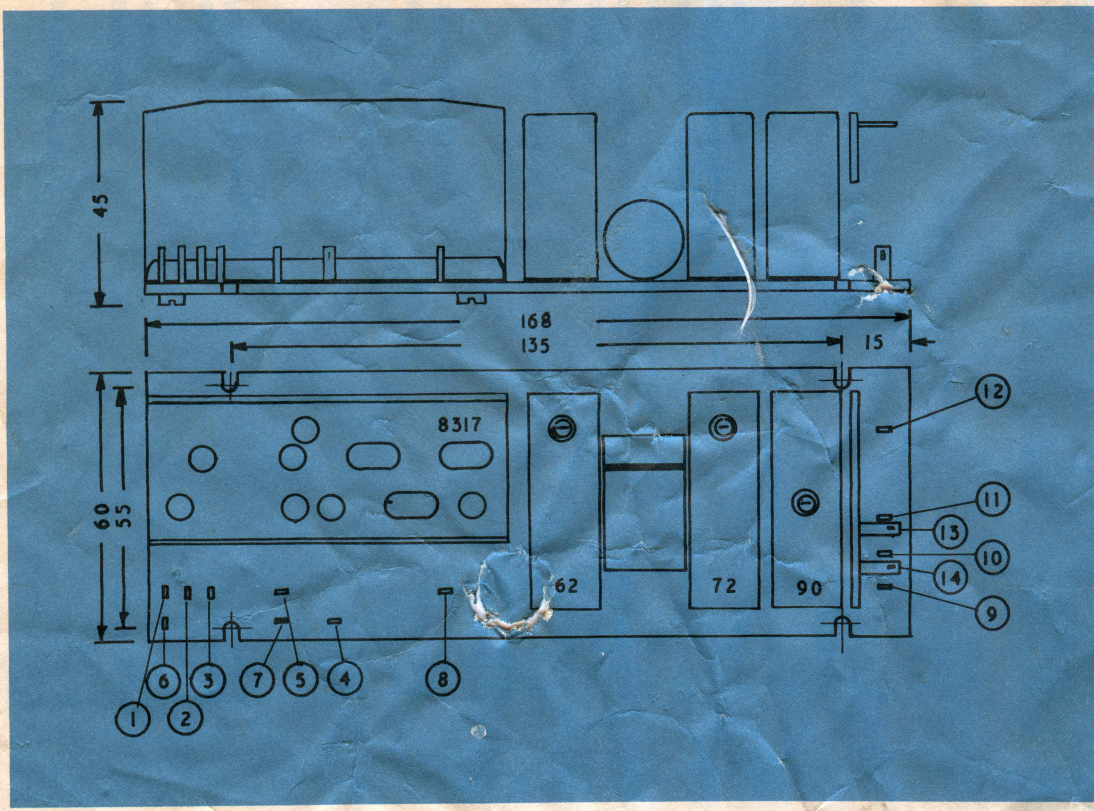
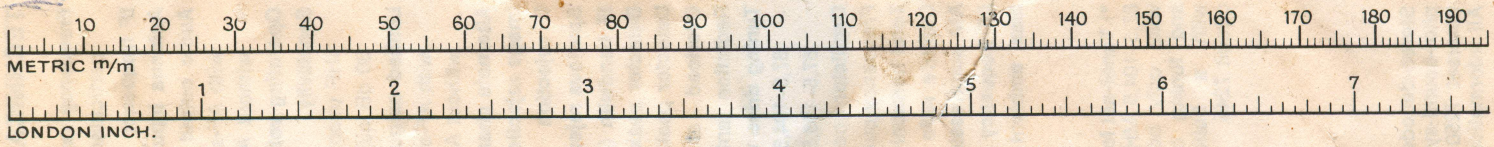
FET

FIELD EFFECT TUNERSET

MODEL 7250



LARSEN & HØEDHOLT
 RYESGADE 51-53
 COPENHAGEN DK 2100 DENMARK

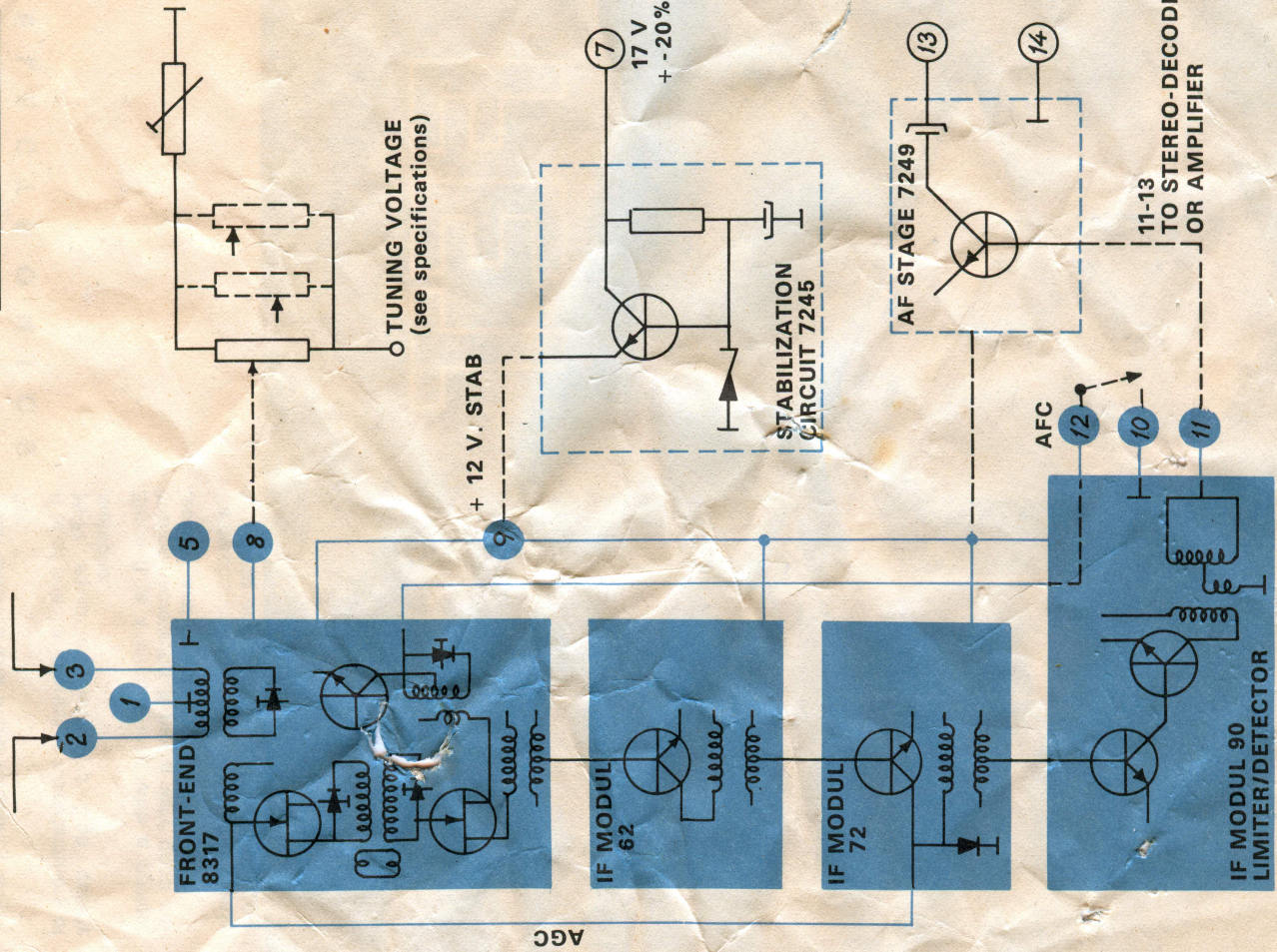


Front-end 8317 and IF-modules can be delivered as separate units: Ask for all details.

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PRINCIPLE DIAGRAM TUNERSET 7250



TECHNICAL DATE

Frequency range: 87.5-104.5 MHz

particular types up to: 108.5 MHz

IF frequency: 10.7 MHz

Antenna input impedance: 75/300 Ohms

Audio output impedance: 25 Kohms

with AF-stage 7249: 10 Kohms

without AF-stage 7249: 12 V./18 mA

Operating voltage/current *): (ground: neg)

Sensitivity: appr. 6 uV

IHF usable: appr. 3 uV

Limited output: 30 dB

with AF-stage 7249: appr. 15 uV

without AF-stage 7249: appr. 15 uV

Alternate channel selectivity: 400 KHz

Image rejection: 30 dB

IF rejection: 60 dB

Spurious rejection - single signal 1/2 IF: 80 dB

IF bandwidth (3 dB down): 80 dB

Detector peak to peak: 250 KHz

Detector peak to peak through the set input 5 uV: 1000 KHz

Overload - at input EMF = 1 V is Δf_{osc} (no AFC) less than: appr. 200 KHz

Radiation (antenna terminal voltage): 50 KHz

Tuning drive voltage *): (ground: neg) < 1 mV/300 Ohms

87.5-104.5 MHz: 2.7-12 V. Stab.

87.5-108.5 MHz (particular types only): 2.7-18 V. Stab.

Oscillator operates for $\Delta V_{bb} = \pm 1$ V. (no AFC): 6 V.

Frequency pulling for $\Delta V_{bb} = \pm 1$ V. (no AFC): ± 10 KHz

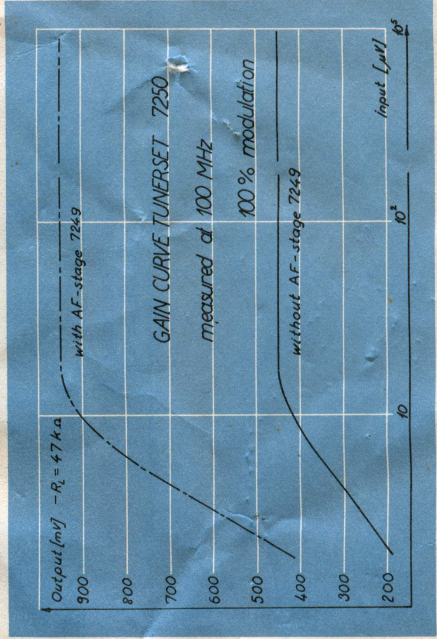
Total harmonic distortion/input EMF (400 HZ): < 1%/uV

Capture ratio IHF: 4 dB

AM suppression: 30 db

AF frequency curve: at 53 KHz < 1 dB down; 3 dB down at: > 80 KHz

Max. ambient temperature: 75° C.



*): Tuner-set for frequency range 87.5-104.5 MHz which need 12 volts only both for operating and tuning can be equipped with a build-in stabilization circuit 7245.

Stereo-decoder modul (FCC pilot-sound-system) suitable for tuner-set 7250 is available. All information on request.