Specifications and Parts Lists Loudspeaker Systems



TANDBERG

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TANDBERG

NOTE

When ordering spare, we will be grateful if you specify the components you need in this way:

e.g. L1 - HI FI 20 - 0.12 mH - part No. 980148

This will mean faster delivery for you and easier handling for us

On systems where the front or a part of the front is covered with a perforated strip, this can be removed by means of an iron plate, nearly as broad as the perforated part of the front, 1 mm thick and ground as shown in the figure below.

Iron plate

On systems with a cloth front, access can be gained to the loudspeakers by gently removing the cloth front, which is fastened with steel needles.

TROUBLE-SHOOTING CHART

Distortion in the bass range.

Possible reasons:

- The woofer rubs because the voice coil is deformed or out of alignment in the magnetic gap.
- Foreign particles in the air gap.
- Partly broken braid wire.
- Cracked or loose paper or rubber surround.
- Assymetrical rest position of the voice coil assembly.
- If the rest position of the cone voice-coil assembly is such as to give a pronounced difference in resistance with movement either in or out of the magnetic gap, a substantial amount of 2nd. harmonic will be heard.
- Loose or leaky dust caps.
- Loose or cracked wooden grille.
- Braid wire touching the cone membrane.
- Loose components on the filter board or other places.
- Leakage around the rim of the loudspeakers or other places in the cabinet.
- Electrical faults on the filter board, shorts or open circuits on L₁ or C₁.

Distortion in the mid- and treble ranges.

Possible reasons:

- -- Distortion in the mid-range unit in a three-way system is comparatively rare, but can be caused by rubbing.
- Electrical faults on the filter board.
- Similar faults which occurs in the woofer unit.

Distorted or missing treble.

Possible reasons:

- The tweeter rubs.
- Open circuit in the voice coil or in the lead wires.
- In rare cases it is open circuits in the series capacitor.

Assure yourself that gaskets and sealing strips are undamaged and that they are correctly mounted. Even small leakages can cause annoying noise. Assure yourself that the acoustic damping material does not touch the woofer cone.

HIFI7

Technical specification:

Dimensions : B:20 3/8" (52 cm), H:10 1/2" (26 cm), D:10" (25 cm)

Internal volume : 0.88 cu.ft. (25 l)
Weight : 16 lb (7.2 kg)
Impedance : 3.2 ohms

Crossover frequency : 3000 Hz
Resonance fraquency : 85 Hz

Frequency range; DIN 45570 : 60 to 16000 Hz Sensitivity (DIN 45500) : 1 Watt

Max. continuous power (DIN 45573) : 8 Watts

Complement:

Woofer : HT 112, 3.2 ohms, 6" x 10", part No. 205607 Tweeter : HT 106, 5 ohms, 2", part No. 211879

Notes:

Max. continuous power (after 1967): 20 Watts (aluminium voice coil). The tweeter with crossover filter is mounted coaxially with the woofer. The whole unit has to be replaced when there is a fault.

HI FI 8 and 14

Technical specification:

Dimensions : B:28" (70cm), H:14" (35 cm), D:14" (35 cm)

Internal volume : 1.77 cu.ft. (50 l)

Weight

Impedance: 4 ohmsCrossover frequency: 3500 HzResonance frequency: 60 Hz

Frequency range (DIN 45570) : 45 to 16000 Hz
Sensitivity (DIN 45500) : 0.7 Watt
Max. continuous power (DIN 45573) : 15 Watts

Complement

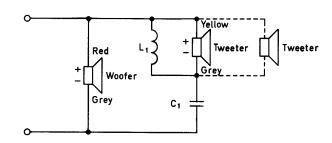
Woofer : HT 114, 4 ohms, 10", part No. 201893
* Tweeter : HT 116, 5 ohms, 2 1/2", part No. 254112

Crossover filter components:

L1: 0.19 mH part No. 980147

C1: 8 µF, part No. 276109

Diagram:



Notes:

* HI FI 14 has two tweeters coupled in parallel, otherwise it is equal to HI FI 8.

Technical specification:

Dimensions : B:7 1/4" (18 cm), H:9 1/4" (23 cm), D:9 1/4" (23 cm)

Internal volume : 0.27 cu.ft. (7.6 l)

Weight

Impedance : 4 ohms
Crossover frequency : 3500 Hz
Resonance frequency : 90 Hz

Frequency range (DIN 45570) : 60 to 16000 Hz

Sensitivity (DIN 45500) :4 Watts Max. continuous power (DIN 45573) :8 Watts

Complement:

* Woofer : HT 113

or HTC 113, 4 ohms, 6 1/2", part No. 264133

Tweeter : HT 106, 5 ohms, 2", part No. 211879

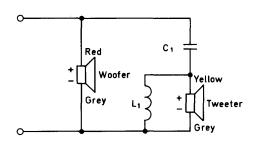
Gasket in front of the tweeter: part No. 224508

Crossover filter components:

L1: 0.19 mH, part No. 980147

C1: 8 µF, part No. 276109

Diagram:



Notes:

* As a spare part for HT 113 only HTC 113, part No. 264133 can be delivered. The max. continuous power can then be increased to 20 Watts.

The built-in loudspeakers in Huldra 8 have the same specification and conplement as HI FI 10.

Technical specification:

: B: 13" (32 cm), H: 8 1/2" (21 cm), D: 6" (15 cm) : 0.27 cu.ft. (7.6 l) Dimensions

Internal volume : 6.7 lb (3 kg) Weight

: 4 ohms Impedance :3500 Hz Crossover frequency :90 Hz Resonance frequency

:60 to 16000 Hz Frequency range (DÍN 45570)

Sensitivity (DIN 45500) : 4 Watts Max. continuous power (DIN 45573) : 20 Watts

Complement:

Tweeter

* Woofer :HTB 113

part No. 264133 or HTC 113, 4 ohms, 6 1/2", :HT 106 5 ohms, 2", part No. 211879

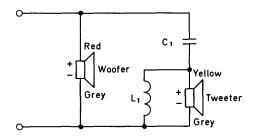
part No. 224508 Gasket in front of the tweeter:

Crossover filter components:

part No. 994732 Filter board:

part No. 980147 $0.19 \, \text{mH},$ L1: part No. 276109 8 μF, C1:

Diagram:





HTC 113 seen from behind.

Notes:

* As a spare part for HTB 113 only HTC 113, part No. 264133 can be delivered.

Technical specification:

Dimensions : B:17 3/4" (44 cm), H:9" (22 cm), D: 7 3/4" (19 cm)

Internal volume :0.45 cu.ft. (12.5 l)
Weight :10.9 lb (4.9 kg)

Impedance : 4 ohms
Crossover frequency : 3500 Hz
Resonance frequency : 70 Hz

Frequency range (DÍN 45570) :50 to 16000 Hz

Sensitivity (DIN 45500) :4 Watts Max. continuous power (DIN 45573) :25 Watts

Complement:

Woofer : HTC 113, 4 ohms, 6 1/2", part No. 264133 Tweeter : HT 106, 5 ohms, 2", part No. 211879

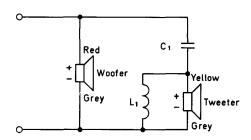
Gasket in front of the tweeter: part No. 224508

Crossover filter components:

Filter board: part No. 994732

L1: 0.19 mH part No. 980147

C1: 8 µF part No. 276109



Technical specification:

Dimensions : B: 26" (65 cm), H: 8 1/2" (21 cm), D: 10" (25 cm)

 Internal volume
 : 0.88 cu.ft. (25 l)

 Weight
 : 19 lb (8.5 kg)

 Impedance
 : 3.2 ohms

 Crossover frequency
 : 3000 Hz

 Resonance frequency
 : 85 Hz

Frequency range (DIN 45570) : 60 to 16000 Hz

Sensitivity (DIN 45500) :1 Watt Max. continuous power (DIN 45573) :8 Watts

Complement:

Woofer : HT 112, 3.2 ohms, 6" x 10", part No. 205607 Tweeter : HT 106, 5 ohms, 2", part No. 211879

Notes:

Max. continuous power after 1967: 20 Watts (aluminium voice coil). The tweeter with crossover filter is mounted coaxially with the woofer.

The whole unit has to be replaced when there is a fault.

HIFI 15

Technical specification:

Dimensions : B: 28" (70 cm), H: 14" (35 cm), D: 11 1/4" (28 cm)

Internal volume : 1.77 cu.ft. (50 l)
Weight : 39 lb (17.5 kg)
Impedance : 4 ohms

Crossover frequencies : 1200 Hz, 4000 Hz

Resonance frequency :50 Hz

Frequency range (DIN 45570) : 35 to 16000 Hz
Sensitivity (DIN 45500) : 2 Watts
Max. continuous power (DIN 45573) : 30 Watts

Complement:

Woofer :HT 120, 4 ohms, 12", part No. 251777
Midrange :HT 121, 4 ohms, 5", part No. 253458
Tweeter: :HT116, 4 ohms, 2 1/2", part No. 254112

Gasket for the tweeter: part No. 253645

Series 1

Crossover filter components:

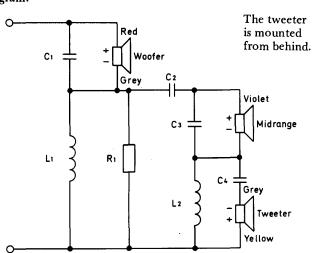
Filter board: part No. 994730

* L1: 0.5 mH ** L2: 0.15 mH

C1: 50 μF part No. 282007
C2: 12 μF part No. 277754
C3: 8 μF part No. 276109
C4: 5 μF part No. 275074

R1: 18 ohms, 1W part No. 204279

Diagram:

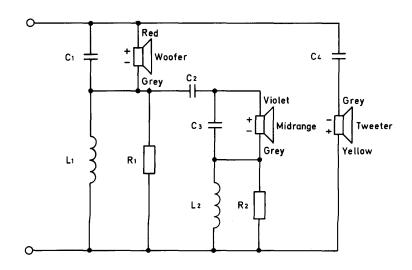


- * L1 is replaced by coil 27213, part No. 980213 assembled on the core, part No. 290462.
- ** L2 can be replaced by coil 27150, part No. 980150. The coil can be mounted on the filter board by means of glue, e.g. Bostik 555.

Crossover filter components:

Filter bo	oard:		part No. 994730
* L1: * L2:	0.5 mH 0.24 mH		•
C1:	50 աF,		part No. 282007
C2:	12 աF,		part No. 277754
C3:	8 աF,		part No. 276109
C4:	5 աF,		part No. 275074
R1:	18 ohms,	1 W,	part No. 204279
R2:	18 ohms,	1 W,	part No. 204279

Diagram:

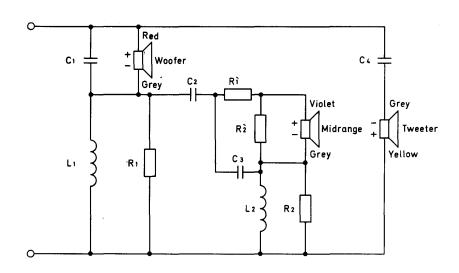


- * L1 is replaced by coil 27213, part No. 980213 assembled on the core, part No. 290462.
- ** L2 is replaced by coil 27150, part No. 980150.

Crossover filter components:

Filter be	pard:	part. No. 994730
* L1:	0.5 mH	
** L2:	0.24 mH	
C1:	50 µF,	part No. 282007
C2:	12 µF,	part No. 277754
C3:	8 µF,	part No. 276109
C4:	5 μF,	part No. 275074
R1:	18 ohms, 1 W,	part No. 204279
R2:	18 ohms, 1 W,	part No. 204279
R3:	3.9 ohms, 5 W,	part No. 228947
R4:	3.9 ohms, 5 W,	part No. 228947

Diagram:

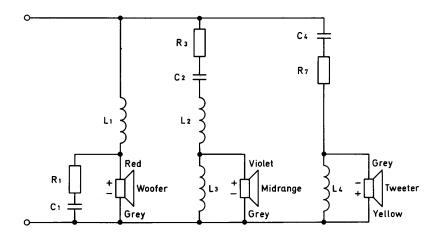


- * L1 is replaced by coil 27213, part No. 980213 assembled on core, part No. 290462.
- ** L2 is replaced by coil 27150, part No. 980150

Crossover filter components:

Filter board:			part No. 994730	
L1:	3 mH,	coil No. 27167,	part No. 980167, assembled on core, part No. 980167	
L2:	0.4 mH	coil No. 27150,	part No. 980150	
L3:	0.4 mH,	coil No. 27150,	part No. 980150	
L4:	0.4 mH,	coil No. 27150,	part No. 980150	
C1:	75 µF,		part No. 284858	
C2:	50 µF,		part No. 282007	
C4:	8 μF,		part No. 276109	
R1:	2.2 ohms,	2 W,	part No. 265433	
R3:	2.2 ohms,	2 W,	part No. 265433	
R7:	2.2 ohms,	2 W,	part No. 265433	

Diagram:



Special woofer: SEAS 30 wK

Notes:

On systems assembled after week 47, 1970, the tweeter is mounted from the front behind the perforated strip.

Technical specification:

Dimensions : B: 21" (52 cm), H: 10 1/2" (26 cm), D: 10" (25 cm)

Internal volume : 0.88 cu.ft. (25 l)
Weight : 17.8 lb (8.0 kg)
Impedance : 4 ohms

Crossover frequencies : 1000 Hz, 3500 Hz

Resonance frequency : 50 Hz

Frequency range (DÍN 45570) : 35 to 16000 Hz Sensitivity (DIN 45500) : 3 Watts

Max. continuous power (DIN 45573) : 20 Watts

Series 1

Complement:

 Woofer:
 HT 124,
 4 ohms,
 8",
 part No. 263430

 Midrange:
 HTB 111,
 3 ohms,
 4" x 7",
 part No. 268508

 Tweeter:
 HT 116,
 4 ohms,
 2 1/2",
 part No. 254112

Gasket for the tweeter: part No. 253645

Crossover filter components:

Filter board: part No. 994731

* L1: 0.5 mH ** L2: 0.19 mH ** L3: 0.19 mH

C1: 100 uF, part No. 269779 C2: 12 uF, part No. 277754

C3: 16 uF, part No. 268098 C4: 2.5 uF, part No. 266769

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R1: 18 ohms, 1 W, part No. 204279

R2: 18 ohms, 1 W, part No. 204279

Complement:

 Woofer:
 Ht 124,
 8 ohms,
 8",
 part No. 263430

 Midrange:
 HTB 111,
 3 ohms,
 4" x 7",
 part No. 268508

 Tweeter:
 HT 125,
 4 ohms,
 2 1/4",
 part No. 267215

Gasket for the tweeter:

part No. 271935

Crossover filter components:

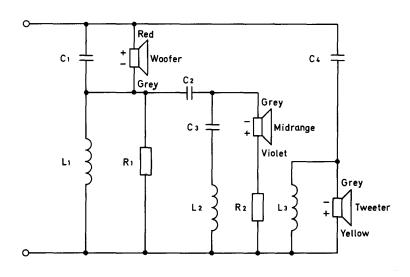
Filter board:

part No. 994731

* L1: 0.5 mH ** L2: 0.19 mH ** L3: 0.19 mH

> C1: 100 uF, part No. 269779 C2: 12 uF, part No. 277754 C3: 16 uF, part No. 268098 C4: 5 uF, part No. 275074 R1: 18 ohms, 1 W, part No. 204279 R2: 1 W, 18 ohms, part No. 204279

Diagram:





HT 124 seen from behind.

Notes:

- * L1 is replaced by coil 27213, part No. 980213 assembled on core, part No. 290462.
- ** L2 and L3 is replaced by coil 27150, part No. 980150. The coil can be mounted on the filter board by means of Bostik 555.

Tweeter HT 125 is mounted from the front behind the perforated strip.

Technical specification:

:B: 9 1/2" (23.5 cm), H: 9 1/2" (23.5 cm), H: 4 1/2" (11 cm) Dimensions

Internal volume : 0.12 cu.ft. (3.5 l) : 6.7 lb (3.0 kg)Weight

:4 ohms Impedance :3500 Hz Crossover frequency

: 85 Hz Resonance frequency : 50 to 1800 Hz Frequency range (DIN 45570)

Sensitivity (DIN 45500) : 8 Watts Max. continuous power (DIN 45573) : 20 Watts

Complement:

part No. 265132 Woofer: HTB 126, 4 ohms, 5",

4 ohms, 2 1/4", Tweeter: HT 125, part No. 267215

part No. 271935 Gasket behind the tweeter:

Crossover filter components:

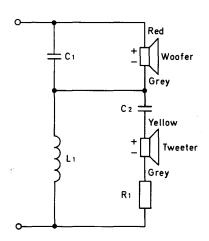
part No. 994703 Filter board:

* L1: 0.24 mH

part No. 277754 C1: 12 µF, part No. 275074 C2: 5 μF,

2.2 ohms, 2 W, part No. 265433 R1:

Diagram:



Notes:

L1 is replaced by coil 27150, part No. 980150

The filter is either fixed with two screws from inside through the front or is clamped between the rockwool and the front.

Technical specification:

Dimensions : B: 9 1/2" (23.5 cm), H: 9 1/2" (23.5 cm), D: 7 3/4" (19 cm)

Internal volume : 0.27 cu.ft. (7.6 l) Weight : 7.3 lb (3.3 kg)

Impedance: 4 ohmsCrossover frequency: 3500 HzResonance frequency: 85 Hz

Frequency range (DÍN 45570) : 50 to 18000 Hz

Sensitivity (DIN 45500) :4 Watts Max. continuous power (DIN 45573) :25 Watts

Complement:

Woofer: HTC 113, 4 ohms, 6 1/2", part No. 264133 Tweeter: HT 125, 4 ohms, 2 1/4", part No. 267215

Gasket behind the tweeter: part No. 271935

Crossover filter components:

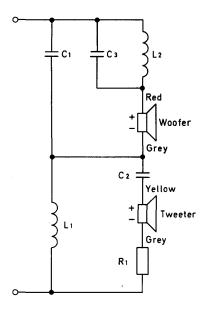
Filter board: part No. 994706

L1: 0.12 mH, part No. 980148 L2: 0.12 mH, part No. 980148

C1: 12 μF, part No. 277754
C2: 5 μF, part No. 275074
C3: 5 μF, part No. 275074

R1: 2.2 ohms 2 W, part No. 265433

Diagram:





HTC 113 seen from behind.

Technical specification:

Dimensions :B: 17 3/4" (44 cm), H: 9" (22 cm), D: 7 3/4" (19 cm)

Internal volume : 0.45 cu.ft. (12.5 l)
Weight : 11.3 lb (5.5 kg)

Impedance: 4 ohmsCrossover frequency: 3500 HzResonance frequency: 70 Hz

Frequency range (DIN 45570) :45 to 18000 Hz

Sensitivity (DIN 45500) :4 Watts Max. continuous power (DIN 45573) :25 Watts

Complements:

Woofer: : HTC 113, 4 ohms, 6 1/2", part No. 264133 Tweeter : HT 125, 4 ohms, 2 1/4", part No. 267215

Gasket for the tweeter: part No. 271935

Crossover filter components:

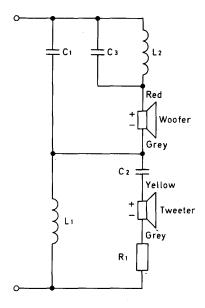
Filter board: part No. 994704

L1: 0.12 mH, part No. 980148 L2: 0.15 mH, part No. 980149

C1: 12 µF, part No. 277754
C2: 8 µF, part No. 276109
C3: 5 µF, part No. 275074

R1: 2.2 ohms, 2 W, part No. 265433

Diagram:





HTC 113 seen from behind.

Notes:

To gain access to the tweeter, the perforated strip must be removed. Be careful to avoid damaging to the cabinet.

When the loudspeakers are being replaced with new ones, be careful to get the phasing of the new speakers correct.

FASETT

Technical specification:

Dimensions : B: 11 1/8 (28 cm), H: 9 3/4" (24.2 cm), D: 9" (22 cm)

Internal volume : 0.23 cu.ft. (6.5 l)
Weight : 7.6 lb (3.4 kg)
Impedance : 8 to 4 ohms
Crossover frequency : 3500 Hz
Resonance frequency : 85 Hz

Frequency range (DÍN 45570) : 60 to 20 000 Hz

Sensitivity (DIN 45500) : 6 Watts
Max. continuous power (DIN 45573) : 25 Watts

Complement:

Woofer: :HTB 126, 4 ohms, 5", part No. 265132

HT 125, 4 ohms, 2 1/4", part No. 267215

Crossover filter components:

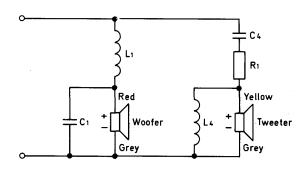
Filter board: part No. 994721

* L1: 2 mH, part No. 980166 L4: 0.4 mH, part No. 980150

C1: 20 µF, part No. 282358
*C4: 10 µF, part No. 280677
R1: 2.2 ohms, 2 W, part No. 265433

Rubber gasket: part No. 253839

Diagram:



Notes:

* Components marked with an asterisk (*) are after March 1974 modified to:

L1: 1.1 mH, part No. 980220

C4: 8 µF, part No. 276109

Early models of the FASETT must be dismounted in the following way:

The plastic cabinet consists of two halves held together with four plastic hooks inside tha cabinet. To gain access to the hooks, remove the rubber gasket between the two halves.

The halves can now be dismounted by applying gentle pressure against the hooks through four openings in the cabinet underneath the rubber sealing gasket.

To assemble the two halves, put them together in the original position and press them together with substantial pressure. The hooks will then catch. A new rubber gasket between the two halves must be used.

On later versions the two halves are held together with two long bolts. The nuts are underneath the rear metal plate.

The woofer and the tweeter must be removed from the inner side of the cabinet. If the tweeter has to be changed, loosen the two fastening screws and pull out the unit slowly. Be careful not to remove the sticky substance around the unit. This has been applied for sealing purposes.

If, for any reason, the front on FASETTS equipped with a fine calibre perforated front has to be removed, one of the two fastening screws is situated underneath the TANDBERG name plate. FASETTS with a large calibre perforated front have free access to the fastening screws.

Technical specification:

Dimensions : B: 16 3/4" (41.5 cm), H: 9 1/2" (23.5 cm), D: 7 3/4" (19 cm)

Internal volume : 0.45 cu.ft. (12.51)

Weight : 10.8 lb (4.8 kg)

Impedance : 4 to 8 ohms

Crossover frequency : 3500 Hz
Resonance frequency : 70 Hz

Frequency range (DÍN 45570) : 45 to 20000 Hz

Sensitivity (DIN 45500) :4 Watts Max. continuous power (DIN 45573) :25 Watts

Complement:

* Woofer : HTC 113, 4 ohms, 6 1/2", part No. 264133 Tweeter : HT 125, 4 ohms, 2 1/4", part No. 267215

Gasket behind the tweeter, part No. 271935

Crossover filter components:

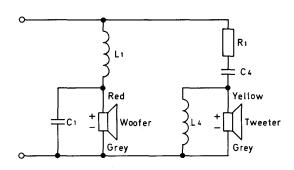
Filter board: part No. 994702

L1: 2 mH, part No. 980166 L4: 0.4 mH, part No. 980150

C1: 20 µF, part No. 282358 C4: 10 µF, part No. 280677

R1: 2.2 ohms, 2 W, part No. 265433

Diagram:





HTC 113 seen from behind.

^{*} Alternative woofer: HTD 113, part No. 307027.

Technical specification:

Dimensions : B. 16 7/8" (42 cm), H: 9 7/8" (24.3 cm), D: 8 3/4" (21.6 cm)

Internal volume : 0.53 cu.ft. (15 l)
Weight : 17.1 lb (5.4 kg)

Impedance :4 ohms
Crossover frequency :3500 Hz
Resonance frequency :70 Hz

Frequency range (DÍN 45570) :50 to 20 000 Hz

Sensitivity (DIN 45500) : 3 Watts Max. continuous power (DIN 45573) : 30 Watts

Complement:

Woofer: HT 132, 4 ohms, 7", part No. 289757 or HTB 132, 4 ohms, part No. 315684

Tweeter : HT 154, 4 ohms, part No. 319735

Gasket behind the tweeter: part No. 319377

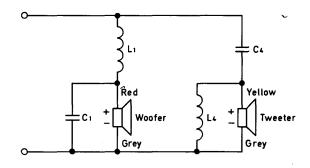
Crossover filter components:

Filter board: part No. 994708

L1: 1.1 mH, part No. 980220 L4: 0.4 mH, part No. 980150

C1: 12 µF, part No. 277754 C4: 10 µF, part No. 280677

10 μF, part No. 280677 βμε ρα nyere model



Technical specification:

Dimensions : B: 21 1/4" (52.7 cm), H: 12" (29.5 cm), D: 6 1/2" (16 cm)

 Internal volume
 : 0.565 cu.ft. (16 l)

 Weight
 : 16 lb (7.2 kg)

 Impedance
 : 4 to 8 ohms

Impedance : 4 to 8 on Crossover frequency : 2000 Hz
Resonance frequency : 70 Hz

Frequency range (DÍN 45570) : 45 to 22 000 Hz

Sensitivity (DIN 45500) : 4 Watts Max. continuous power (DIN 45573) : 30 Watts

Complement:

 Woofer
 :HT 132, 4 ohms, 7", part No. 289757

 or HT 151, 8 ohms, 7", part No. 314800

 or HT 149, 8 ohms, 7", part No. 314706

 Tweeter:
 :HT 128, 8 ohms, 1", part No. 282710

Gasket behind the tweeter, part No. 885100

Crossover filter components:

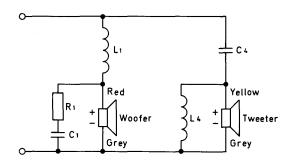
Filter board: part No. 994705

L1: 2 mH, part No. 980166 L4: 0.4 mH, part No. 980150

C1: 20 µF, part No. 282358 C4: 10 µF, part No. 280677

R1: 3.9 ohms, 5 W, part No. 228947

Diagram:



Notes:

* For stereo-pairs speakers with same HT-No. should be used.

Technical specification:

: B: 18 1/4" (45.3 cm), H: 11 3/8" (28.2 cm), D: 8 1/8" (20.2 cm) : 0.64 cu.ft. (18 l) Dimensions

Internal volume Weight : 18.4 lb (5.8 kg)

: 4 ohms Impedance Crossover frequency Resonance frequency : 3500 Hz :100 Hz

Frequency range (DÍN 45570)

:70 to 20 000 Hz Sensitivity (DIN 45500) :1.5 Watts Max. continuous power (DIN 45573) : 25 Watts

Complement:

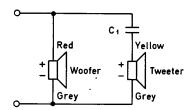
Woofer : HT 133, 4 ohms, 8", part No. 289097 4 ohms, 2 1/2", Tweeter :HT 116, part No. 254112

Gasket behind the tweeter, part No. 319298

Crossover filter components:

C1: 8 μF, part No. 276109

Needle, part No. 320479



Technical specification:

Dimensions : B: 21 1/4" (53 cm), H: 9 1/2" (23.5 cm), D: 9" (22 cm)

Internal volume : 0.9 cu.ft. (251)
Weight : 17.2 lb (7.75 kg)

Impedance : 4 ohms Crossover frequency : 3000 Hz

Crossover frequency : 3000 Hz
Resonance frequency : 90 Hz

Frequency range (DÍN 45570) : 60 to 20 000 Hz
Sensitivity (DIN 45500) : 1.5 Watts
Max. continuous power (DIN 45573) : 25 Watts

Complement:

Woofer : HT 133, 4 ohms, 8", part No. 289097 Tweeter : HT 116, 4 ohms, 2 1/2", part No. 254112

Gasket behind the tweeter, part No. 253645

or part No. 319298 after week 16, 1974

Series 1

Crossover filter components:

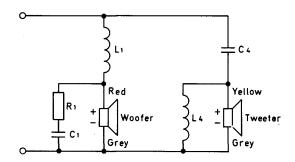
Filter board: part No. 994720

L1: 0.5 mH, part No. 980213 L4: 0.4 mH, part No. 980150

C1: $20 \,\mu\text{F}$, part No. 282358 C4: $10 \,\mu\text{F}$, part No. 280677

R1: 2.2 ohms, 2 W, part No. 265433

Needle, part No. 320497



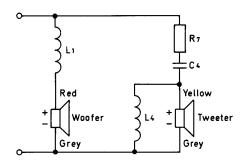
Crossover filter components:

Filter board: part No. 994720

L1: 1.1 mH, part No. 980220 L4: 0.4 mH, part No. 980150

C4: 8 µF, part No. 276109

R7: 1 ohm, 2 W, part No. 241900



Technical specification:

Dimensions : B: 21 1/8" (52.7 cm), H: 12" (29.5 cm), D: 9" (22.0 cm)
Internal volume : 0.9 cu.ft. (25 1)

 Internal volume
 : 0.9 cu.ft. (25 l)

 Weight
 : 19 lb (8.5 kg)

 Impedance
 :4 to 8 ohms

 Crossover frequency
 : 2000 Hz

Resonance frequency : 60 Hz

Frequency range (DÍN 45570) :45 to 22 000 Hz

Sensitivity (DIN 45500) : 4 Watts Max. continuous power (DIN 45573) : 35 Watts

Complement:

Woofer: HT 127, 8 ohms, 8", part No. 284391 104. 33 + Mans.
Tweeter: HT 128, 8 ohms, 1", part No. 282710 88, 25 + Mans.

Gasket behind the tweeter, part No. 885100

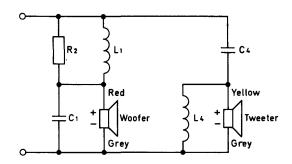
Crossover filter components:

Filter board: part No. 994701

L1: 3 mH, part No. 980167 L4: 0.4 mH, part No. 980150

C1: 20 µF, part No. 282358 C4: 10 µF, part No. 280677

R2: 33 ohms, 2 W, part No. 266640



Technical specification:

Dimensions : B: 21" (52.6 cm), H: 12" (29.7 cm), D: 9" (22 cm)

Internal volume : 0.9 cu.ft. (251)

Weight : 20.3 lb (9.15 kg)
Impedance : 4 ohms

Crossover frequencies : 700 Hz, 3500 Hz

Resonance frequency : 60 Hz Frequency range (DIN 45570) : 45 to 20 000 Hz

Frequency range (DIN 45570) : 45 to 20 000 Hz Sensitivity (DIN 45500) : 3 Watts

Sensitivity (DIN 45500) : 3 Watts Max. continuous power (DIN 45573) : 40 Watts

Complement:

Woofer : HT 157, 4 ohms, 8" part No. 318888
Midrange : HT 156, 8 ohms, 3 3/8", part No. 315820
Tweeter: : HT 154, 4 ohms, 2" part No. 319735

Gaskets for the midrange unit: 85212, part No. 315748 (2 pcs)

Gasket behind the tweeter: part No. 319377

Crossover filter components:

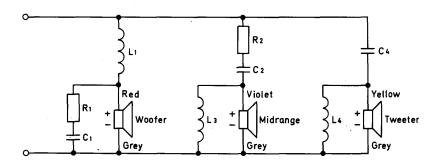
Filter board: part No. 994709

L1: 2 mH, part No. 980166 L3: 1.8 mH, part No. 980225 L4: 0.4 mH, part No. 980150

C1: 50 µF, part No. 282007 C2: 20 µF, part No. 282358 C4: 6.8 µF, part No. 313672

R1: 3.9 ohms, 5 W, part No. 228947 R2: 2.2 ohms, 5 W, part No. 288170

Diagram:



Ny modell HT-172 852 Thor Johnsen

Kjeller 5 oktober 1981

Vedr. TL 3520

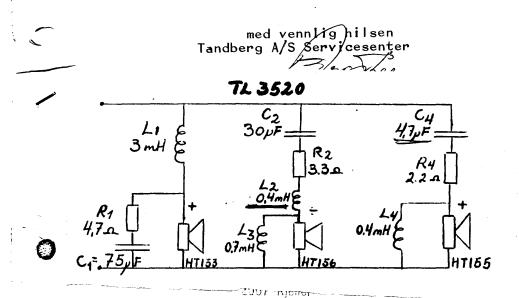
Peerless KO 10 DT 8 ohm. kan med fordel brukes i TL 3520. Delefilterets innkopling av diskanthøytaleren passer.

Har De et delefilter-kort hvor spole L,2,o,4 mH ikke er montert,
bør denne settes inn. Fjærn bro ved L2, merket på kortet og plasser spolen mellom R2 og L2 + høytaler utgang. Kondensator C4,6,8 øf,
endres til 4,7 øf polyester.

Disse endringene er for en tid siden gjort på TL 3520.

Deler kan bestilles fra vårt delelager på Kjeller.

Skjema m/endringer er vedlagt.



Thor Johnsen

Kjeller 5 oktober 1981

Vedr. TL 3520

Peerless KO 10 DT 8 ohm. kan med fordel brukes i TL 3520. Delefilterets innkopling av diskanthøytaleren passer.

Har De et delefilter-kort hvor spole L,2,o,4 mH ikke er montert,
bør denne settes inn. Fjærn bro ved L2, merket på kortet og plasser spolen mellom R2 og L2 + høytaler utgang. Kondensator C4,6,8 gf,
endres til 4,7 pf polyester.

Disse endringene er for en tid siden gjort på TL 3520.

Deler kan bestilles fra vårt delelager på Kjeller.

Skjema m/endringer er vedlagt.

med vennlig hilsen Tandberg A/S Servicesenter

> T. Brørby Servicesjef

H. Øverland Avd. Leder

Tandberg A/S
Servicesenteret
Fetveien 1 - Postboks 53
2007 Kjeller

Technical specification:

Dimensions : B: 23 3/4" (59 cm), H: 14 1/8" (35.3 cm), D: 10 1/4" (25.7 cm) internal volume : 1.24 cu.ft. (35 l)

Internal volume : 1.24 cu.ft. (35 l)
Weight : 29.4 lb (13.25 kg)
Impedance : 4 to 8 ohms

Crossover frequencies : 700 Hz, 3500 Hz

Resonance frequency : 53 Hz

Frequency range (DÍN 45570) :40 to 22000 Hz

Sensitivity (DIN 45500) :4 Watts Max. continuous power (DIN 45573) :50 Watts

Complement:

 Woofer
 : HT 153,
 8 ohms,
 10",
 part No. 313220

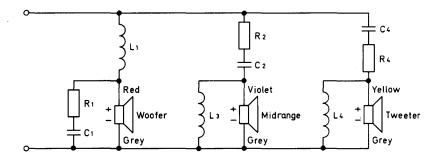
 Midrange
 : HT 156,
 8 ohms,
 3 3/8",
 part No. 315820

 Tweeter
 : HT 155,
 8 ohms,
 1" dome,
 part No. 319534

Gaskets for the midrange unit: 85212, part No. 315748 (2 pcs)
Gasket in front of the tweeter, part No. 319650

Crossover filter components:

Filter board:			part No. 994710
L1:	3 mH		part No. 980167
L3:	0.7 mH		part No. 980224
L4:	0.4 mH		part No. 980150
C1:	50 μF		part No. 282007
C2:	50 µF		part No. 282007
C4:	6.8 µF		part No. 313672
R1:	4.7 ohms,	9 W	part No. 318019
R2:	2.7 ohms,	9 W	part No. 330740
R3:	2.2 ohms,	5 W	part No. 288170



Technical specification:

Dimensions : B:26" (65 cm), H: 15" (37 cm), D: 11 1/8" (28 cm)
Internal volume : 1.8 cu.ft. (501)

Weight : 37.5 lb (17.3 kg)
Impedance : 4 to 8 ohms
Crossover frequencies : 700 Hz, 2000 Hz

Resonance frequency : 50 Hz

Frequency range (DIN 45570) : 35 to 22 000 Hz

Sensitivity (DIN 45500) : 3 Watts Max. continuous power (DIN 45573) : 45 Watts

Complement:

 Woofer
 : HT 130,
 8 ohms,
 12",
 part No. 281029

 Midrange
 : HT 129,
 8 ohms,
 5",
 part No. 284743

 Tweeter
 : HT 128,
 8 ohms,
 1",
 part No. 282710

Gasket behind the tweeter: part No. 885100

Crossover filter components:

Filter board:	part No. 994700
Titter bourd.	part 110. 331700

L1: 3 mH, part No. 980167
L2: 0.4 mH, part No. 980150
L4: 0.4 mH, part No. 980150

* C1: 75 µF. part No. 284858

 C1:
 75 µF,
 part No. 284858

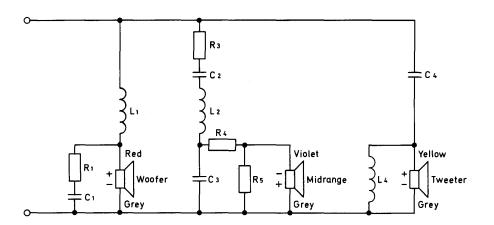
 C2:
 50 µF,
 part No. 282007

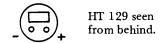
 C3:
 20 µF,
 part No. 282358

 C4:
 10 µF,
 part No. 280677

part No. 228947 * R1: 3.9 ohms, 5 W, * R3: part No. 280325 8.2 ohms, 5 W, R4: 3.9 ohms, 5 W, part No. 228947 R5: 3.9 ohms, 5 W, part No. 228947

Diagram:





Notes:

* Components marked with an asterisk (*) are after 1.11 -72 modified to:

C1: 50 µF, part No. 282007

R1:

2W, 2.2 ohms,

part No. 265433 part No. 228947

R3:

3.9 ohms,

5 W,

TL 5020A AND TL 5020

Technical specification:

:B: 26" (65 cm), H: 14 7/8" (37 cm), D: 11 1/4" (28 cm) Dimensions

: 1.8 cu.ft. (50 1) Internal volume Weight : 38.5 lb (17.35 kg) :4 to 8 ohms Impedance Crossover frequencies : 700 Hz, 3500 Hz

Resonance frequency Frequency range (DIN 45570) :50 Hz

: 35 to 22 000 Hz

Sensitivity (DIN 45500) : 2 Watts Max. continuous power (DIN 45573) : 60 Watts

Complement:

part No. 281029 Woofer :HT 130, 8 ohms, 12", part No. 284743 Midrange :HT 129, 8 ohms, 5",

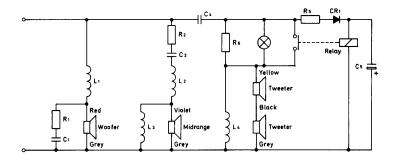
1", Tweeter :HT 150, 4 ohms, part No. 314469 (2 units)

Gasket behind the tweeter: part No. 313028

Series 1

Crossover filter components:

Filter bo	ard:		part No. 994707	
L1:	2 mH,		part No. 980166	
L2:	0.4 mH,		part No. 980150	
L3:	0.4 mH,		part No. 980150	
L4:	0.4 mH,		part No. 980150	
C1:	75 µF,		part No. 284858	
C2:	20 μF,		part No. 282358	
C3:	6.8 µF,		part No. 313672	
C5:	250 μF,		part No. 241124	
R1:	2.2 ohms,	9 W,	part No. 313794	
R2:	3.3 ohms,	9 W,	part No. 312113	
R5:	56 ohms,	1/4 W,	part No. 325203	
R6:	560 ohms,	1/3 W,	part No. 216967	
CR1;			part No. 289851	
Relay:			part No. 312509	
Lamp:			part No. 219343	

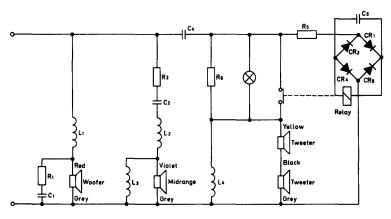


With modified protection circuit for the tweeters.

Crossover filter components:

Filter board:			part No. 994707
L1:	9U		N- 0901cc
	2 mH,		part No. 980166
L2:	0.4 mH,		part No. 980150
L3:	0.4 mH,		part No. 980150
L4:	0.4 mH,		part No. 980150
C1:	75 uF,		part No. 284858
C2:	20 uF,		part No. 282358
C3:	6.8 uF,		part No. 313672
C4:	250 uF,		part No. 241124
R1:	2,2 ohms,	9 W,	part No. 313794
R2:	3.3 ohms,		part No. 312113
R5:	56 ohms,	•	part No. 325203
R6:	560 ohms,	1/3 W,	part No. 216967
CR1:			part No. 289851
CR2:			part No. 289851
CR3:			
CR4:			part No. 289851
CR4:			part No. 289851
URT:			partNo. 289851
Relay:			part No. 312509
Lamp:			part No. 219343

Diagram:



Notes:

The only difference between TL 5020A and TL 5020 is that TL5020 has a different cabinet with aluminium trimmings.

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U/V.58. 6

TANDBERGS RADIOFABRIKK A/S Postboks 9, Korsvoll, Oslo 8 Norway