

Return Free

RELEASE FOR TRANSFERRED PRODUCTION

IN BRIVE OF TYPES:

E10.12..

E10.130..

Q13.110..

M.13.38

Eindhoven, October 1975


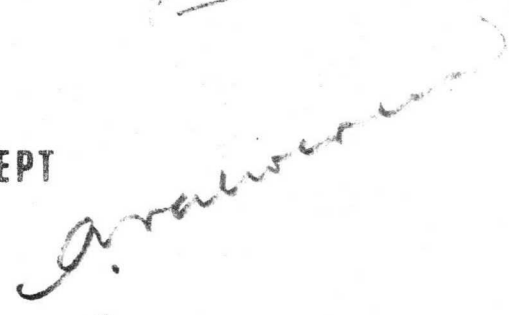
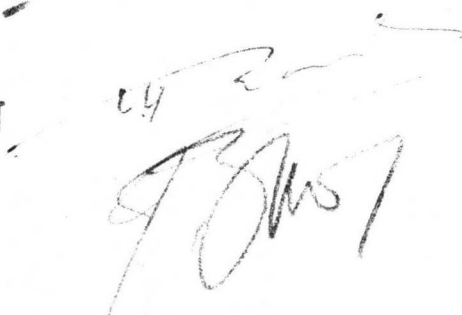
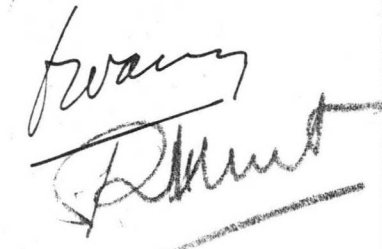
THE UNDERSIGNED AGREE TO

**RELEASE FOR TRANSFERRED
PRODUCTION**

OF : INSTRUMENT CATHODE-RAY TUBE

TYPE : E10-12..

PRODUCTION CENTRE :

<u>NAME</u>	<u>DEPARTMENT</u>	<u>SIGNATURE</u>
Mr. Modderman	COMMERCIAL DEPT	
Mr. Verhoeven	DEVELOPMENT DEPT	
Mr. Radstake Mr. Bru	MANUFACTURING DEPT	
Mr. Wassenaar Mr. Menet	QUALITY LABORATORY	

DATE 1.10.1975

THE UNDERSIGNED AGREE TO

**RELEASE FOR TRANSFERRED
PRODUCTION**

OF : INSTRUMENT CATHODE-RAY TUBE

TYPE : E10-130..

PRODUCTION CENTRE :

NAME **DEPARTMENT** **SIGNATURE**

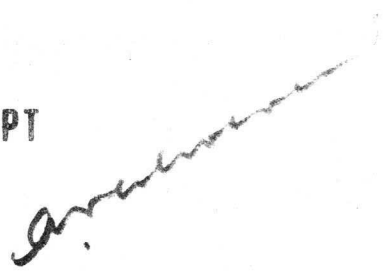
Mr. Modderman

COMMERCIAL DEPT



Mr. Verhoeven

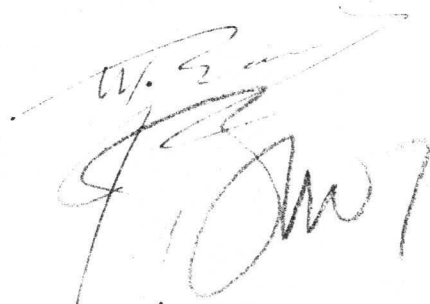
DEVELOPMENT DEPT



Mr. Radstake

MANUFACTURING DEPT

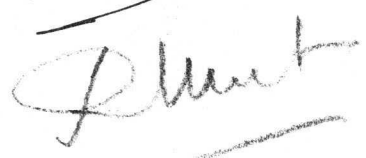
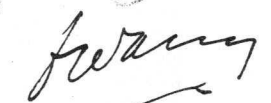
Mr. Bru



Mr. Wassenaar

QUALITY LABORATORY

Mr. Menet



DATE 1-10-1975


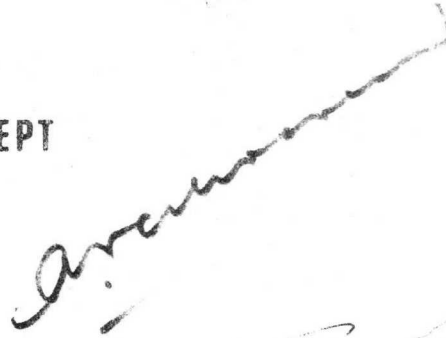
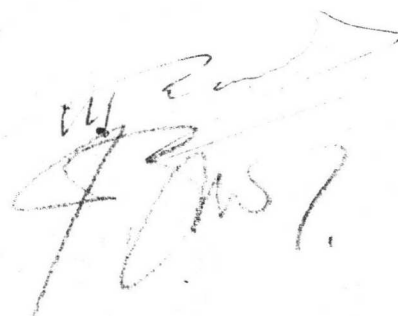
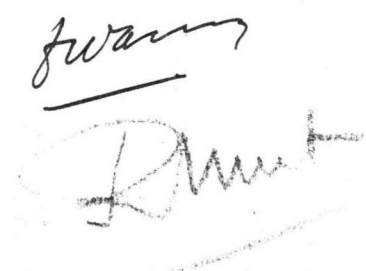
THE UNDERSIGNED AGREE TO

**RELEASE FOR TRANSFERRED
PRODUCTION**

OF : FLYING SPOT SCANNER TUBE

TYPE : Q13-110..

PRODUCTION CENTRE :

<u>NAME</u>	<u>DEPARTMENT</u>	<u>SIGNATURE</u>
Mr. Modderman	COMMERCIAL DEPT	
Mr. Verhoeven	DEVELOPMENT DEPT	
Mr. Radstake Mr. Bru	MANUFACTURING DEPT	
Mr. Wassenaar Mr. Menet	QUALITY LABORATORY	

DATE 1.10.1975

THE UNDERSIGNED AGREE TO

**RELEASE FOR TRANSFERRED
PRODUCTION**

OF : PROJECTION TUBE

TYPE : M. 13-38

PRODUCTION CENTRE :

NAME **DEPARTMENT** **SIGNATURE**

Mr. Modderman

COMMERCIAL DEPT



Mr. Verhoeven

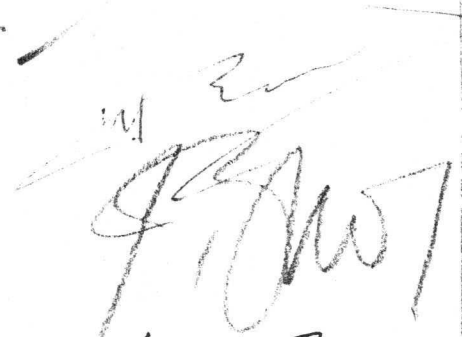
DEVELOPMENT DEPT



Mr. Radstake

MANUFACTURING DEPT

Mr. Bru



Mr. Wassenaar

QUALITY LABORATORY

Mr. Menet



DATE 1.10.1975

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.173

75-09-19

ONDERWERP : Release for transferred production in Brive of C.R.T.~

Types M.13-38, Q13-110, E10-12 , E10-130

The C.R.T. types E10-12 , E10-130, M13-38 and Q13-110 made in Brive has been tested in Eindhoven on several parameters according to the F,L and lifetest specification, to obtain "Release for transferred production" in Brive.

Annexed reports give summaries of test and measuring results of the above mentioned C.R.T. types.

As can be seen from the results, summarised in reports RAR-84/75.166, RAR-84/75.167 and RAR-84/75169 dated 75-09-16 these types can be given "Release for transferred production" in Brive.

K.Wassenaar ✓

Copy HH.: v.Geffen
Mathijssen
Mulder
Peper
Padstake
Varekamp
Verhoeven
Modderman
Weyer
Menet } Brive
Bru }

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ONDERWERP : Release for transferred production E10-12 /E10-130

1)	See reports RAR-84/75.018 content test II results batch 1				
	/75.048	"	"	II	" " 2
	/75.096	"	"	II	" " 3
	/75.097	"	"	II	" " 4
	/75.098	"	"	II	" " 5
	/75.103	"	"	II	" " 6
	/75.121	"	"	II	" " 7
	/75.135	"	"	II	" " 8
	/75.164	"	"	II	" " 9
	/75.165	"	"	II	" " 10
	RAR-84/75.101	"	L test + lifetest results		batch 1
	/75.102	"	L " + " " "		batch 2
	/75.163	"	lifetest results		batch 3

2) Summary of test II results

Received 396 tubes

Rejected: 7x imploded	}	Transport damage
1x loose particles		
1x loose connection		
4x glasstrain	}	repaired in Eindhoven
1x high gasvalue		
1x -Vg1 too high		
1x no picture		
2x modulation too high		
1x side cap missing	}	repaired in Eindhoven
1x base protection missing		

Good after repair 380 out of 396 = 96%

3) Summary of L test results

Batch 1

- 2x borderline good angle X/Y
- 1x borderline good angle X'/X"
- 1x borderline good angle side contact connection
- 1x borderline good diam. over side pins
- 1x ecp.Y just outside limits

The other electrical and mechanical measurements are good.

ONDERWERP :

Batch 2: 1x borderline good on angle X'/X"
1x borderline good on angle -Vg1
1x borderline good on If
1x borderline good on angle of side contact connection
1x Ecc.Y outside limits.
4x Dia over pins too big (repaired in Eindhoven)
The other electrical and mechanical measurements are good.

4) Summary of lifetest results

Batch 1: The results are satisfactory.
2: The results are satisfactory.
3: After 2000 hours 1 tube with bad modulation.

5) Conclusion

From the results we conclude that there is no objection on against release of the C.R.T. type E10-12 ,E10-130 for production and measuring in Brive.

G. GeEVERS

Copy to Messrs.: Bru Approved K.Wassenaar
 Menet
 Varekamp
 Wassenaar
 Peper
 Modderman

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR 84/75.018

1-1

75-01-28

ONDERWERP : Release for transferred production E10-12 GH batch 1

Received 4 pieces
Measured 4 pieces
Good 4 pieces

tube nr. 1 : borderline case angle side connectors and
diam. over side pins.
97.4 mm: limit 97.5 mm

tube nr.2 : Borderline case angle of traces system II
-60 min: limit \pm 60 min

tube nr. 3 : Borderline case angle of traces system I
+ 55 min.: limit \pm 60 min
and borderline case angle X'/X"
- 45 min: limit \pm 48 min.

Tubes will be used for L test and life test.

G.Geevers

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RAR-84/7.048

1

75-03-10

ONDERWERP : Release for transferred production E10-12GP. batch 2

Test II results

Received 10 tubes

Measured 5 tubes

All tubes are good.

5 tubes will be used for L-test and life test

5 tubes delivered to the store.

G.Geevers

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RAR-84/75.096

1

75-05-27

ONDERWERP : Release for transferred production E10-12GH batch 3

Test II results

Received 19 pieces

Measured 5 pieces

All tubes are good

5 Tubes will be used for L test and life test

14 Tubes delivered to the store

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RAR-84/75-097

1

75-05-29

ONDERWERP : Release for transferred production E10-12GP batch 4

Test II results

Received 40 pieces

Measured 8 pieces

All tubes are good (1x after repair on insulation K/G1)

40 Pieces delivered to the store.

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RAR-84/75.098

1

75-05-29

ONDERWERP : Release for transferred production E10-12GP batch 5

Test II results

Received 55 pieces

Measured 15 pieces

Good 11 pieces

2x modulation too high

1x insulation K/G1(reject)

1x screenglass damaged(repair)

Batch is rejected

55 Pieces are sent to the factory to measure
all the tubes.

Results after measuring:

51 good

2 modulation too high(repaired)

1 K/G1

1 no picture

53 are sent to the store

G.Geevers

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RAR-84/75.103

1

75-05-19

ONDERWERP : Release for transferred production E10-12GP batch 6

Test II results:

Received 40 pieces

Measured 20 pieces

Good 14 pieces

Rejected 6 pieces

4 pieces imploded

1 piece glasstrain base

1 piece -Vg1 too high

1 piece loose connection Y plate

1 piece loose particles

Visually inspected 20 pieces

Good 17 pieces

Rejected 3 pieces

2 pieces imploded

1 piece badly glued of side cap connection

Conclusion: after repair 32 pieces good
rejected 8 pieces

Remark: 1 tube base protection forgotten

Damage of tubes is caused by use of the wrong packing . An improved or individual packing is necessary.

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RAAR-84/75.121

1

75-06-19

ONDERWERP : release for transferred production E10-12GP batch 7

Test II results

Received 60 pieces

Measured 8 pieces

1 piece glasstrain

7 pieces good

Visual inspection of 60 pieces

Total results good 57 pieces

rejected 3 pieces glasstrain

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RAA-84/75.135

1

75-07-22

ONDERWERP : Release for transferred production E10-12GP batch 8

Test II results

Received 60 pieces

code 304
EDF

Measured 20 pieces

Good 18 pieces

Rejected 2 pieces

1x modulation too high (repair)

1x transport damage (cracked)

Result: Batch is good

58 pieces delivered to the store

1 piece repaired in Eindhoven

1 piece destroyed

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A. H. H. H.

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RAR-84/75.164

1

75-09-16

ONDERWERP : Release for transferred production E10-130GP batch 9

Test II results

Received 38 pieces

Measured 5 pieces

Good 4 pieces

Rejected 1 piece modulation too high (repaired in Eindhoven)

Batch is rejected

New test:

33 pieces left

measured 5 pieces

Good 5 pieces

Batch is good.

Delivered to the store 37 pieces.

for repair 1x to the factory

G.Geevers

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Varekamp

Wassenaar

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.165

1

75-09-16

ONDERWERP : Release for transferred production E10-12GP batch 10

Test II results

Received 70 tubes

Measured 20 tubes

Good 20 tubes

Batch is good

G.Geevers

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