

RELEASE FOR TRANSFERRED PRODUCTION

IN BRIVE OF TYPE :

M 17-140 W

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/76.187

3-1

76-11-23

ONDERWERP : Release for transferred production in Brive of monitor tube M17-140W.

The C.R.T. type M17-140W made in Brive is tested in Eindhoven on several parameters according to the F and L specifications to obtain :

"Release for transferred production" in Brive.

Annexed reports give summaries of test - and measuring results of the above mentioned tube type .

As can be seen the results summarised on sheet 2 is type can be given.

"Release for transferred production " in Brive.

K.Wassenaar

Copy to Messrs.: Van Geffen

Honig ✓

Mathijssen

Mulder

Peper

Radstake

Schell

Varekamp

Modderman

Weijer

Menet } Brive

Bru }

ONDERWERP : Release for transferred production M17-140W

Summary of test results.

- 1) See reports RAR-84/76.030 test II results batch 1
- | | |
|--------|-------------------|
| 76.031 | batch 2 |
| 76.032 | batch 3 |
| 76.033 | batch 4 |
| 76.065 | batch 5 + 6 |
| 76.130 | Batches 7 + 8 + 9 |

RAR-84/76.186 L test results.

2) Summary of test II results

Received 726 pieces (9 batches)

Good after repair 673 pieces

Rejected 26 x stray emission

9 x grid emission

12 x cracked near pins

2 x burned in due to flash over

1 x insulations K/F

1 x I_{a_0} too low

1 x usefull scan too small

1 x focus bad

3) Summary of L test results

The results are satisfactory.

4) Conclusion

Sufficient information has been collected to conclude that there is no objection against release of the monitor tube M17-140W, for production in Brive, however, much care must be taken to emission and stray and grid emission.

G.Geevers

M 17-140

DATE CODE RECEIVED MENSURED FOOD REPAIRS IN REPAIRS REPAIRS IN REPAIRS GOODLY ETC. IN REPAIRS TAKE REPAIRS IN REPAIRS FOOD AFTER REPAIRS

GRINDING TOO HIGH INSULATIONS HIGH TENSION GASKETS SCREENABILITY BRIGHTNESS TOO LOW BLIND CURRENT CHANGE CURR. FOR -Vg, too HIGH/LOW MODEL TOO HIGH TR LENS TOO LOW ANGLE OF TUBES PARTIAL DISTORTION PINPOINT CORN BLANKING TOO HIGH CONNECTION DET. FROM TOO HIGH/LOW FOCUSING TOO HIGH/LOW DIRTY ON DIRECTOR SPONGING USEFUL BEAM TO SMALL STRAY EMISSION BASE ALIGNMENT ALIGN. POINTS LOCURABILITY IS TOO HIGH/LOW WRONG TYPE OAR LOOSE BASE BAD FOCUS CHECKED NEAR BASE BURNED IN KINSHO DIRECTOR FOG STAYS ON AIR

DATE CODE	RECEIVED	MENSURED	FOOD	REPAIRS IN REPAIRS	REPAIRS IN REPAIRS	REPAIRS IN REPAIRS	GOODLY ETC. IN REPAIRS TAKE	REPAIRS IN REPAIRS	FOOD AFTER REPAIRS
140W E69	60.60	x	47.13	78					
140W E69	84.84	x	60.24	72					
140W E69	36.86	x	28.07	79					
140W E69	24.24	x	10.6	75					
140W E69	36.5		5.0	100					
140W E69	55.55		52.4	4	55				
140W	191	-							
140W E6E	144.40		89.1						
140W E6E	96.40		10.2						

DATE CODE	RECEIVED	MENSURED	FOOD	REPAIRS IN REPAIRS	REPAIRS IN REPAIRS	REPAIRS IN REPAIRS	GOODLY ETC. IN REPAIRS TAKE	REPAIRS IN REPAIRS	FOOD AFTER REPAIRS
140W E69	60.60	x	47.13	78					
140W E69	84.84	x	60.24	72					
140W E69	36.86	x	28.07	79					
140W E69	24.24	x	10.6	75					
140W E69	36.5		5.0	100					
140W E69	55.55		52.4	4	55				
140W	191	-							
140W E6E	144.40		89.1						
140W E6E	96.40		10.2						

FOR REPAIR
 AFTER REPAIR

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/76.030

1-1

76-02-16

ONDERWERP : Release for transferred production M17-140W batch 1

Test II results

Received 60 pieces

date code E5L

Measured 20 pieces

Results :

Good 10 pieces

6 pieces Ia₀ too low

3 pieces cracked near pins

1 piece burned in due to flash over

Batch is rejected.

56 pieces are sent to the factory for repair

After repair

Good 47 pieces

Rejected 5 pieces grid emission

3 pieces stray emission

4 pieces cracked near pins

1 piece burned in due to flash over.

G. Geevers

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Modderman
Radstake
Varekamp
Verhoeven

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RAR-84/76.031

1

76-02-11

ONDERWERP : Release for transferred production M17-140W batch 2

Test II results

Received 84 pieces

Date code E6A

Measured 20 pieces

Results :

Good 8 pieces
5 pieces Ia₀ too low
4 pieces stray emission
3 pieces cracked near foot

81 pieces send to the factory for repair

After repair

Total results

Good 60 pieces
Rejected 18 pieces stray emission
5 pieces cracked near foot
1 piece bad focus.

G. Geevers

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAH-84/76.032

1-1

76-02-16

ONDERWERP : Release for transferred production M17-140W batch 3

Test II results

Received 36 pieces date code E6A

Measured 5 pieces

Results:

Good 4 pieces

1 piece Iao too low

Batch is rejected

36 pieces send to the factory for repair.

After repair

Total results

Good 28 pieces

Rejected 2 pieces grid emission

2 pieces stray emission

3 pieces cracked near pins

1 piece usefull scan too small in the edge >5 mm

Remark: 2x reject on usefull scan for M17-140W (<5 mm)
these tubes are good for M17-141W.

G.Geevers

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/76.033

1

76-02-17

ONDERWERP : Release for transferred production M17-140W batch 4

Test II results

Received 24 pieces

date code E6A

Measured 5 pieces

Results:

Good 0 pieces

5 pieces I_{a_0} too low

Batch is rejected , send to the factory 24 pieces for repair.

After repair

Total results

Good 18 pieces

3 pieces stray emission

1 piece grid emission

1 piece I_{a_0} too low

1 piece burned in due to flash over.

- Remarks :
- 1) All tubes are packed with the screen down. To prevent damage of the screen by loose particles the screen must be on the upper side.
 - 2) This batch is sent to Eindhoven under type number M17-141W, however, the tubes were not provided with the metal band and therefore this batch should have been sent under type number M17-140W because of the price-difference.
 - 3) The date code has to be put on the uncovered part of the cone (not on the neck)

G. Geevers

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Radstake
Varekamp, Wassenaar

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAH-84/76.065

-1

76.03-19

ONDERWERP : Release for transferred production M17-140W

Batch 5

Test II results

code E6A

Received 36 pieces

Measured 5 pieces

Results :

Good 5 pieces

Batch is good 36 pieces delivered to the store.

Remark : see note

Batch 6

Test II results

code E6B

Received 55 pieces

Measured 20 pieces

Results :

Good 18 pieces

Rejected 2 pieces Ik too low

Batch is rejected.

Total results

Measured 55 pieces

Good 51 pieces

Rejected 3 pieces Ik too low (after repair good)

1 piece pinprotector forgotten (after repair good)

Delivered to the store 55 pieces

Note : All tubes are packed with the screendown. To prevent damage of the screen by loose particles the screen must be on the upper side.

G.Geevers

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Menet

Varekamp

Modderman

Wassenaar

N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND.

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/76.130

1

76-08-05

ONDERWERP : Release for transferred production M17-140W batch 7-8-9

- 1) Received 191 pieces
No measurement have been made.
Delivered to the store 191 pieces.
- 1a) Received from the store 1 piece: full of air
send back to Briva.
- 2) Received 144 pieces
Measured 20 pieces
Good 19 pieces
Rejected 1 piece grid emission
Batch is good.
Remark : 1x eccentricity core-haze borderline but good with magnet.
- 3) Received 96 pieces
Measured 20 pieces
Good 18 pieces
Rejected 1 piece short circuit K/f
1 piece grid emission (repaired)
Batch is good.
Remark : 2x eccentricity core-haze borderline, but good with magnet .
5 tubes used for L-test.

G.Geevers

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/76.186

11-1

76-11-23

ONDERWERP : Release for transferred production M17-140W

L test results (for test II results see RAR-84/76.130)

- 1 tube screenquality borderline good
- 1 tube neck dia borderline good
- 1 tube eccentricity borderline good
- 1 tube core haze borderline good (already mentioned in II results).

The other electrical and mechanical measurements are satisfactory.

G. Geevers

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STEMPEL:		ONTVANGEN OP:					VOOR:					GEZIEN:				
VP	(V _m)	6,3	6,3	5,4	5,4	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	
VP	(V _m)	6,3	6,3	5,4	5,4	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	
VF	(V _m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vg2	(V _m)	600	600	600	600	600	600	600	600	600	600	600	600	600	600	
Vg4	(V _m)	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	
Vg3g5	(kV _m)	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
Ie33g5	(µA)	PJ0Z	PJ0Z	PJ0Z	PJ0Z	PJ0Z	PJ0Z	PJ0Z	PJ0Z	PJ0Z	PJ0Z	PJ0Z	PJ0Z	PJ0Z	PJ0Z	
Beld		P	P	P	P	P	P	P	P	P	P	P	P	P	P	
Focus		loc.	loc.	loc.	loc.	loc.	loc.	loc.	loc.	loc.	loc.	loc.	loc.	loc.	loc.	
-Vg1	(V _m)	af1.	af1.	af1.	af1.	af1.	af1.	af1.	af1.	af1.	af1.	af1.	af1.	af1.	af1.	
		57/0	57/0	57/0	57/0	57/0	57/0	57/0	57/0	57/0	57/0	57/0	57/0	57/0	57/0	
		5	5	5	5	5	5	5	5	5	5	5	5	5	5	
		Iao	Iao	Iao	Iao	Iao	Iao	Iao	Iao	Iao	Iao	Iao	Iao	Iao	Iao	
		35	35	35	35	35	35	35	35	35	35	35	35	35	35	
		Kgs	Kgs	Kgs	Kgs	Kgs	Kgs	Kgs	Kgs	Kgs	Kgs	Kgs	Kgs	Kgs	Kgs	
		5	5	5	5	5	5	5	5	5	5	5	5	5	5	
		Vg4	Vg4	Vg4	Vg4	Vg4	Vg4	Vg4	Vg4	Vg4	Vg4	Vg4	Vg4	Vg4	Vg4	
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		ΔVfoc.	ΔVfoc.	ΔVfoc.	ΔVfoc.	ΔVfoc.	ΔVfoc.	ΔVfoc.	ΔVfoc.	ΔVfoc.	ΔVfoc.	ΔVfoc.	ΔVfoc.	ΔVfoc.	ΔVfoc.	
		46	46	46	46	46	46	46	46	46	46	46	46	46	46	
		37	37	37	37	37	37	37	37	37	37	37	37	37	37	
		kern	kern	kern	kern	kern	kern	kern	kern	kern	kern	kern	kern	kern	kern	
		wass	wass	wass	wass	wass	wass	wass	wass	wass	wass	wass	wass	wass	wass	
		exc.	exc.	exc.	exc.	exc.	exc.	exc.	exc.	exc.	exc.	exc.	exc.	exc.	exc.	

Nr. in RV-6-3-07A405

BUSNUMMER

1 1200 1200 2,78 2,78 63 1100 970 255 2,25 80 191 2250 120 14
 2 695 1360 3,16 3,16 67 1000 960 232 2,23 266 204 480 590 10
 3 63 1300 1220 3,02 2,83 62 1060 950 246 2,20 18,5 22,2 + 60 520 0
 4 68 1270 1220 2,95 2,85 66 1100 960 255 2,23 13,6 21,2 + 870 420 20
 5 695 1250 1180 2,80 2,74 68 960 980 223 2,14 20,4 21,9 + 150 480 10
 67 1276 1236 2,94 2,87 65 1044 902 242 2,21 17,4 22,8 + 182 426 11
 65 160 180 1,82 1,72 6 140 50 32 0,11 18,6 10,3 210 470 2

EISEN: 100%

5 P 5 STUKS

EENHEDEN

CONCLUSIE

CONTROLE - CONTROLE ELEGTRISCH
 KONTROLLE - TEST

CODE N. M17-1408
 TYPE
 PAR BLADEN BLATT
 PAR BLATTER FEUILLES
 SIGN SHEETS SHEETS
 362-2





CONTROLÉ • CONTROLE
 KONTROLLE • TEST

L ELEKTRISCH

CODE N.
 TYPE

M17-140M

BLADEN
 BLATTEN
 FEUILLES
 SMERTS

BLAD
 BLATT
 FEUILLE
 SHEET

362-8

		ONTVANGEN OP:										VOOR:			GEZIEN:		M17-140M												
		7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0																		
		A	B	C	D	E	F	G	H	I	J																		
		Doorslag										Elek. cap.		Buis exp.		Dikte		Glas-afstand											
		-f / +f										k/roest g/roest		ag3g5 / m		mm		mm											
		-kg1g2 / +kg1g2										k/roest g/roest		ag3g5 / m		mm		mm											
		-g1g4 / +g1g4										k/roest g/roest		ag3g5 / m		mm		mm											
		-kg1g2 / +kg1g2										k/roest g/roest		ag3g5 / m		mm		mm											
		-g1g2 / +g1g2										k/roest g/roest		ag3g5 / m		mm		mm											
		-kg1g4 / +kg1g4										k/roest g/roest		ag3g5 / m		mm		mm											
		-g1g2 / +g1g2										k/roest g/roest		ag3g5 / m		mm		mm											
		-kg1g2 / +kg1g2										k/roest g/roest		ag3g5 / m		mm		mm											
		-g1g2 / +g1g2										k/roest g/roest		ag3g5 / m		mm		mm											
V ₁	(V/-)																												
V ₂	(mA/-)																												
V ₃	(V-)																												
V ₄	(V-)																												
V ₅	(kV-)																												
I ₆	(µA-)																												
Beeld																													
Focus																													
-V _{g1}	(V-)																												
V-iso1	(V-)																												
I _{g2}	(µA)																												
METING		Doorslag										Elek. cap.		Buis exp.		Dikte		Glas-afstand											
R _v in		36										45		19		18		14		24		47		24		20			
RV-6-3-0/1405																													
BUISNUMMER																													
1												43		360		81		16		162		64		20		4			
2												41		320		107		10		165		65		18		5			
3												49		310		66		9		160		12		185		8			
4												46		300		97		8		175		64		19		6			
5												49		380		88		7		170		67		19		8			
x												46		322		86		10		166		64		19		6			
R												48		40		41		9		15		05		2		4			
MIN												5		250						120		5,5							
MAX												8				100		:		180		7,5		18		25			
x MIN																				150									
x MAX												4,8								170									
R MAX												0,4																	
MIN																													
MAX																													
EISEN																													
EENHEDEN																													
RV-6-3-0/1405																													
CONCLUSIE																													

24-12-68
 CONTROLLE - CONTROLE
 KONTROLLE - TEST
 L ELEKTRISCH
 CODE N:
 M17-140W

STEMPEL:			ONTVANGEN OP:			VOOR:			GEZIEN:			M17-140W				
V1	(V=)	7	7	7	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3
V2	(V=)	500	800	800	600	600	600	600	600	600	600	600	600	600	600	600
V3	(V=)	0	0	0	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.
V4	(kV=)	20	18	18	16	16	16	16	16	16	16	16	16	16	16	16
V5	(µA=)	40	-	-	5	PJZ	40	500	400	400	100	400	100	50	100	afl.
Beeld		R	P	R	R	P	B124n93	R	PR	PR	PR	PR	P	TR	P	R
Focus		-	def.	-	def.	def.	def.	foc.	foc.	foc.	foc.	foc.	foc.	foc.	foc.	foc.
-Vg1	(V=)	inst.	-150	-150	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.	inst.
METING																
Mr. in		1	25	9	35	40	32	13	41	27	26	34				
RV-6-3-0/M05																
BUISNUMMER		1	2	3	4	5										
		goed > 25	goed > 25	goed > 25	goed > 25	goed > 25										
		2.0	1.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
		2.0	3.4	4.0	5.4	3.2										
		4.8	3.0	5.0	4.0	3.6										
		1.5	1.5	1.5	4.0	2.4										
		0.5	2.8	3.0	2.4	2.8										
		2.2	2.1	3.2	4.0	3.0										
		4.3	3.4	3.5	2.6	1.2										
		18	5	5	18	18										
EISEN		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
BENHEDEN		KV	µA	µA	µA	µA	µA	µA	µA	µA	µA	µA	µA	µA	µA	µA
RV-6-3-0/M05		D5	D5	D5	D5	D5	D5	D5	D5	D5	D5	D5	D5	D5	D5	D5
CONCLUSIE																



362-4
 BLAD
 BLATT
 FEUILLES
 SHEET

M17-140W



1941

1

20 003 AIR-PARTS

02243 A

1400

	10%	50%	80%
ed			
gr	10	33	28
bl			

02243 A/01/10/1941

02243 A/01/10/1941



1600

1

100%	50%	50%
rd	gr	bl
	4M	388

08/27/2004 14:37:42/28

20003 AIR-PARTS

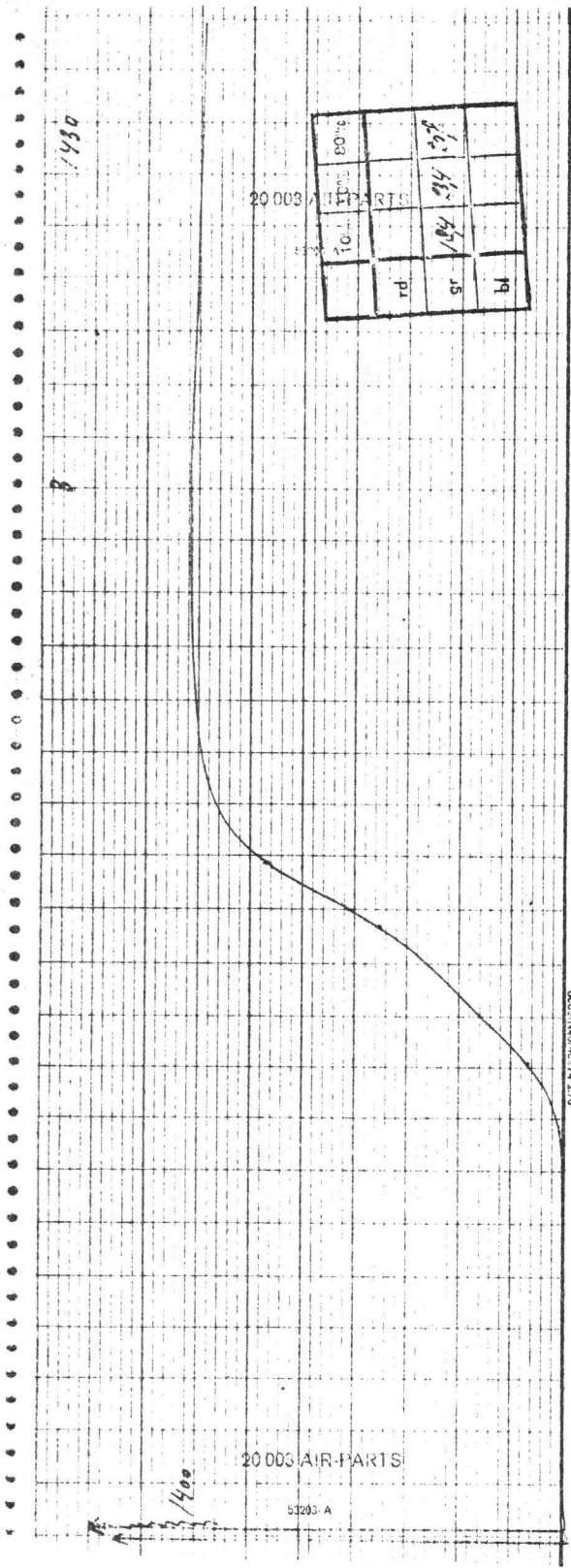
53203 A

1600

1430

20 003 AIR PARTS

80%			
70%			
60%			
50%			
40%			
30%			
20%			
10%			
0%	rd	gr	bl



0006 NAD/4374 278

20 005 AIR PARTS

51203 A

1/100

81

20 003 AIR-PARTS

58243 A

	10%	50%	80%
rd			
gr	118	22	241
bl			

0308/04/1937/4/2/78

0308/04/1937/4/2/78

192

4

1600

