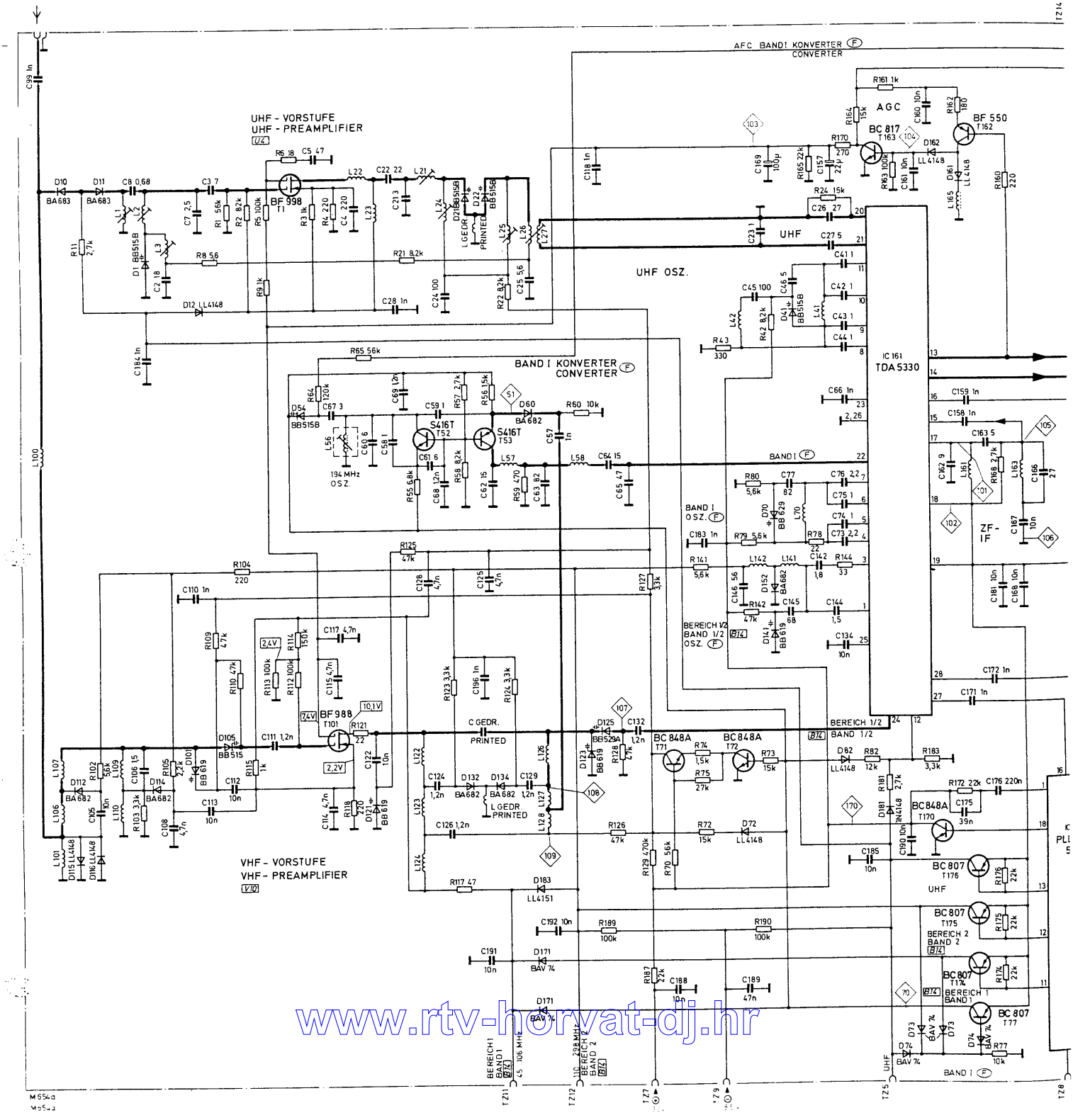
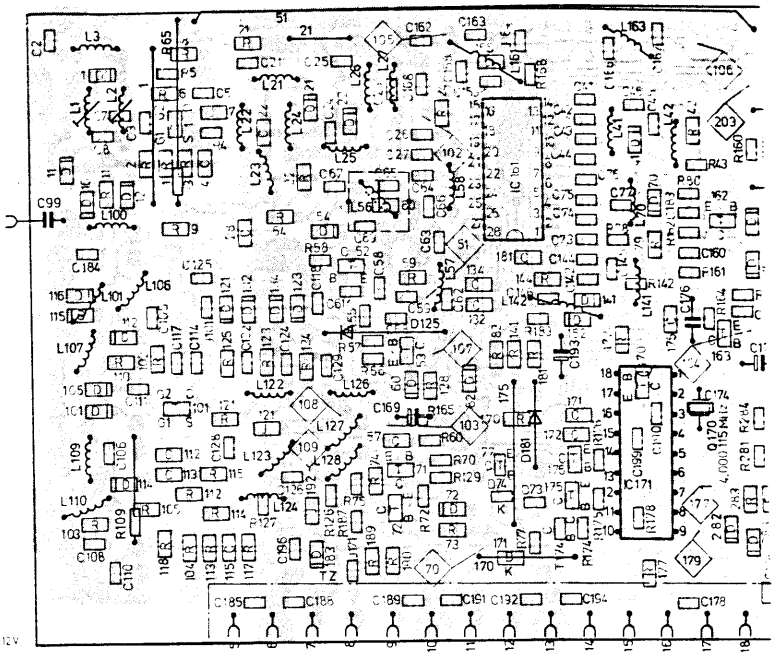
HF-ZF Modul
Module HF-DF

5827 02 77

IC 161	TDA 5330 T/C 1		3761 17 26
IC 171	SDA 3202-2	MOS	3775 06 01
IC 201	U 4439		3761 16 34
IC 251	TDA 4480		3761 16 33
IC 261	HEF 40538 BT	MOS	3771 51 94
IC 281	HEF 4066 BT	MOS	3771 51 95
T 1	BF 998-E 6327	MOS	3611 07 12
T 52, 53	S 416 T		3612 07 15
T 71, 72, 170	BC 848 A		3614 53 21
T 77, 174, 175, 176	BC 807-25		3614 73 04
T 101	BF 964 S	MOS	3611 11 19
T 162	BF 550-E 6327		3612 07 25
T 163	BC 817-25		3614 73 01
T 211, 212	BC 848 B		3614 53 22
T 231	BF 824		3612 07 51
T 261, 291	BC 858 B		3614 54 22
D 1, 21, 22, 41	BB 515 B		3651 08 79
D 10, 11	BA 683		3656 04 15
D 12, 72, 82, 115, 116 161, 162	LL 4148 F		3656 03 11
D 54, 105, 231...233	BB 515 B MIN E 7263		3651 08 83
D 60, 70	BB 619		3651 08 82
D 71, 183	LL 4151		3656 03 12
D 101, 121/123, 141	BB 619 MIN 756		3651 08 80
D 112/114, 132, 134, 152	BA 682		3656 04 11
D 117	LL 2,0		3656 03 16
D 125	BE 529 A		3651 05 35
D 181	1 N 4148		3656 08 10
D 251	BB 619		3651 08 82
D 291	ZMM 10		3653 16 32
R 262	2,2 kΩ	Einsteller / Ajusteur	3111 26 16
R 291	47 kΩ	Einsteller / Ajusteur	3111 26 20
F 201		OFW 63955	4555 85 71
F 211		5,5 MHz	4555 84 75
F 212		6,5 MHz	4555 84 76
F 213		Filter / Filtre	4555 84 94
F 251		5,5 MHz	4555 84 37
Q 170		4,000115 MHz	4421 31 84
Antennenbuchse / Prise pour antenne			4143 90 45
Gehäusedeckel / Couvercle du coffret			8316 45 01
Leiste, 30polig / Réglette à douilles, 30 fois			4145 16 75



02 77			
	D 54, 105, 231...233	BB 515 B MIN E 7263	3651 08 83
	D 60, 70	BB 619	3651 08 82
	D 71, 183	LL 4151	3656 03 12
17 26	D 101, 121/123, 141	BB 619 MIN 756	3651 08 80
06 01	D 112/114, 132, 134, 152	BA 682	3656 04 11
16 34	D 117	LL 2,0	3656 03 16
16 33	D 125	BE 529 A	3651 05 35
51 94	D 181	1 N 4148	3656 08 10
51 95	D 251	BB 619	3651 08 82
	D 291	ZMM 10	3653 16 32
07 12	R 262 2,2 kΩ	Einsteller / Ajusteur	3111 26 16
07 15	R 291 47 kΩ	Einsteller / Ajusteur	3111 26 20
53 21			
73 04	F 201	OFW 63955	4555 85 71
11 19	F 211	5,5 MHz	4555 84 75
07 25	F 212	6,5 MHz	4555 84 76
73 01	F 213	Filter / Filtre	4555 84 94
53 22	F 251	5,5 MHz	4555 84 37
07 51			
54 22	Q 170	4,000115 MHz	4421 31 84
08 79	Antennenbuchse / Prise pour antenne		4143 90 45
04 15	Gehäusedeckel / Couvercle du coffret		8316 45 01
03 11	Leiste, 30polig / Réglette à douilles, 30 fois		4145 16 75



M659

HF-ZF Modul (Multinorm)
Module HF-DF

5827 02 77
(PLL/Bd. 1/5,5 MHz/6 MHz/6,5 MHz AM/6,5 MHz FM/Mono)

www.tv-horvat-dj.hr

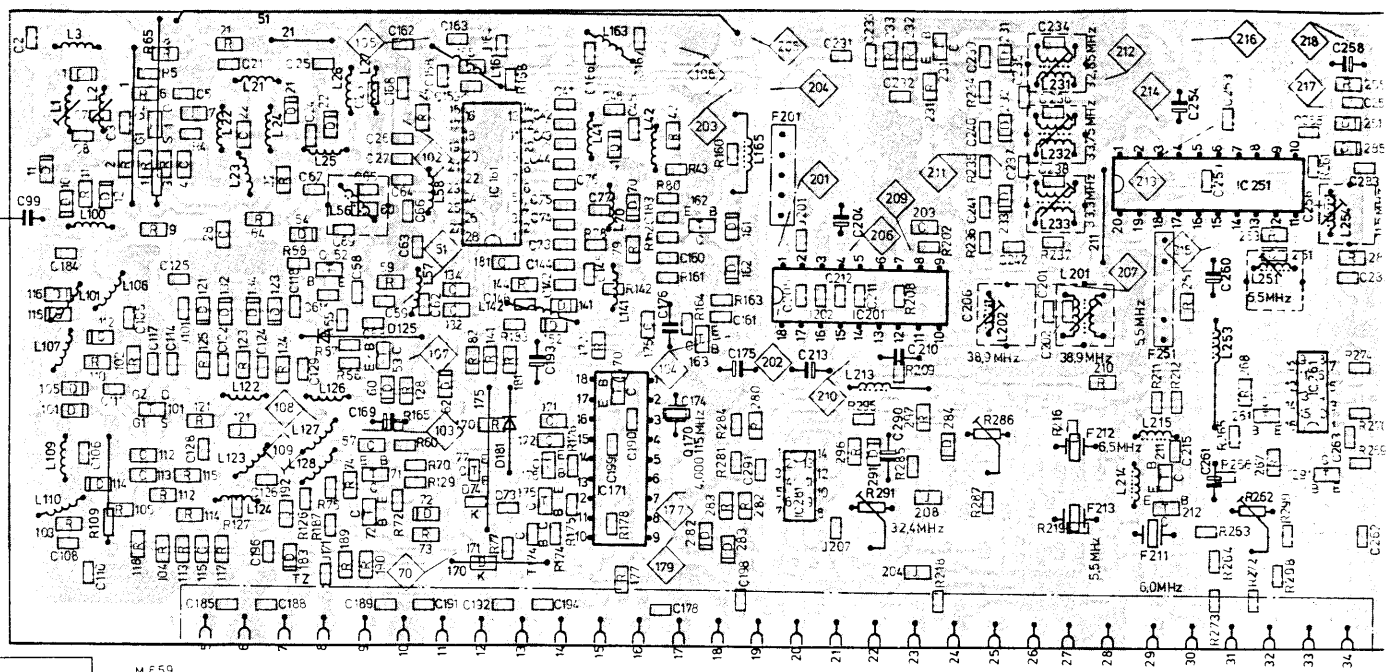
3651 08 83
3651 08 82
3656 03 12
3651 08 80
3656 04 11
3656 03 16
3651 05 35
3656 08 10
3651 08 82
3653 16 32

3111 26 16
3111 26 20

4555 85 71
4555 84 75
4555 84 76
4555 84 94
4555 84 37

4421 31 84

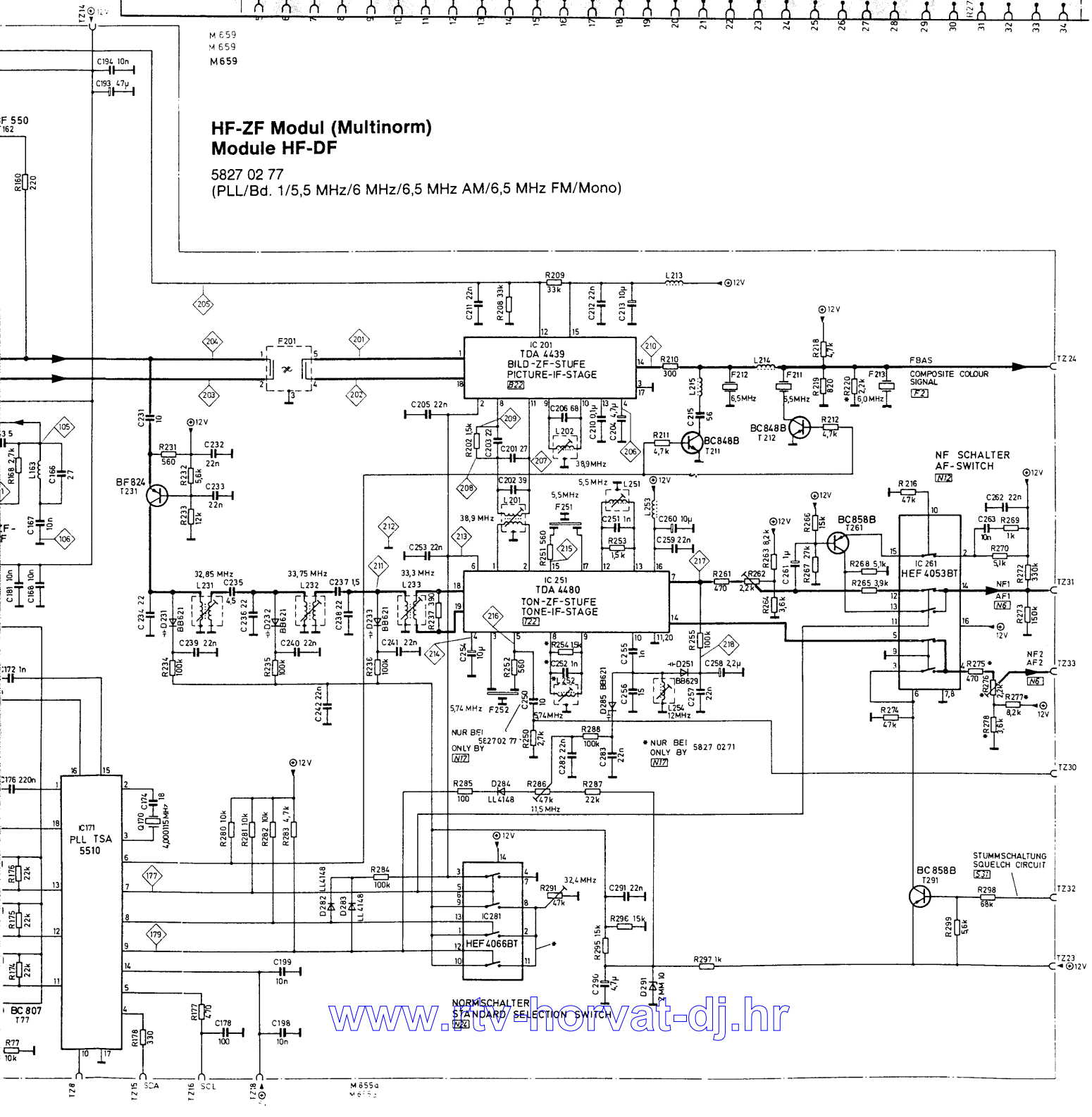
4143 90 45
8316 45 01
4145 16 75



M 659
M 659
M 659

HF-ZF Modul (Multinorm)
Module HF-DF

5827 02 77
(PLL/Bd. 1/5,5 MHz/6 MHz/6,5 MHz AM/6,5 MHz FM/Mono)



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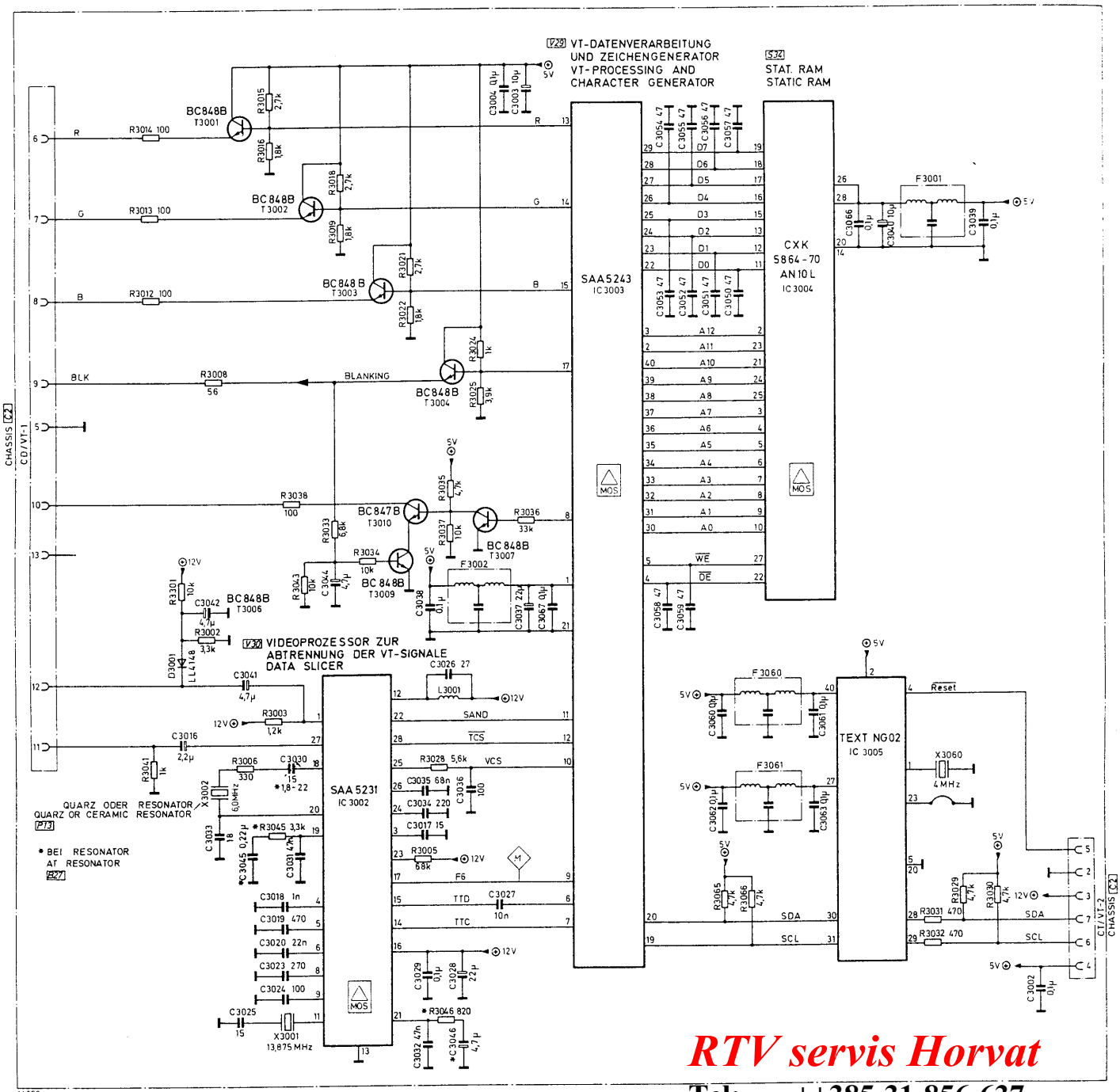
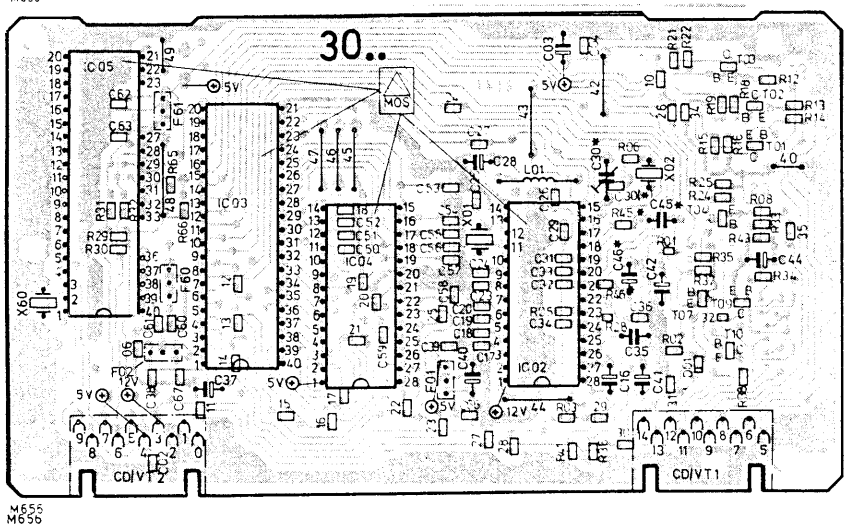
VIDEOTEXT-Decoder, 2
TELETEXT decoder, 2

Décodeur VIDEOTEXT, 2
Decoder TELEVIDEO, 2

6911 11 67 (DE/FLOF)



M650
M650



M655
M656
M656

* BEI RESONATOR
AT RESONATOR
P27

(*) NUR BEI QUARZ
ONLY AT QUARZ
P27

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Nach Austausch des Moduls sind keine Abgleicharbeiten erforderlich.

Replacing a defective module does not necessitate realignment.

Aucun ajustage n'est necessaire en cas remplacement du module.

Nel caso di sostituzione del moduli non è necessaria nessuna taratura.

En el caso de recambio del módulo no es necesario efectuar ningún ajuste.

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NOKIA
CONSUMER ELECTRONICS

VIDEOTEXT-Decoder
TELETEXT decoder
Décodeur VIDEOTEXT
Decoder TELEVIDEO

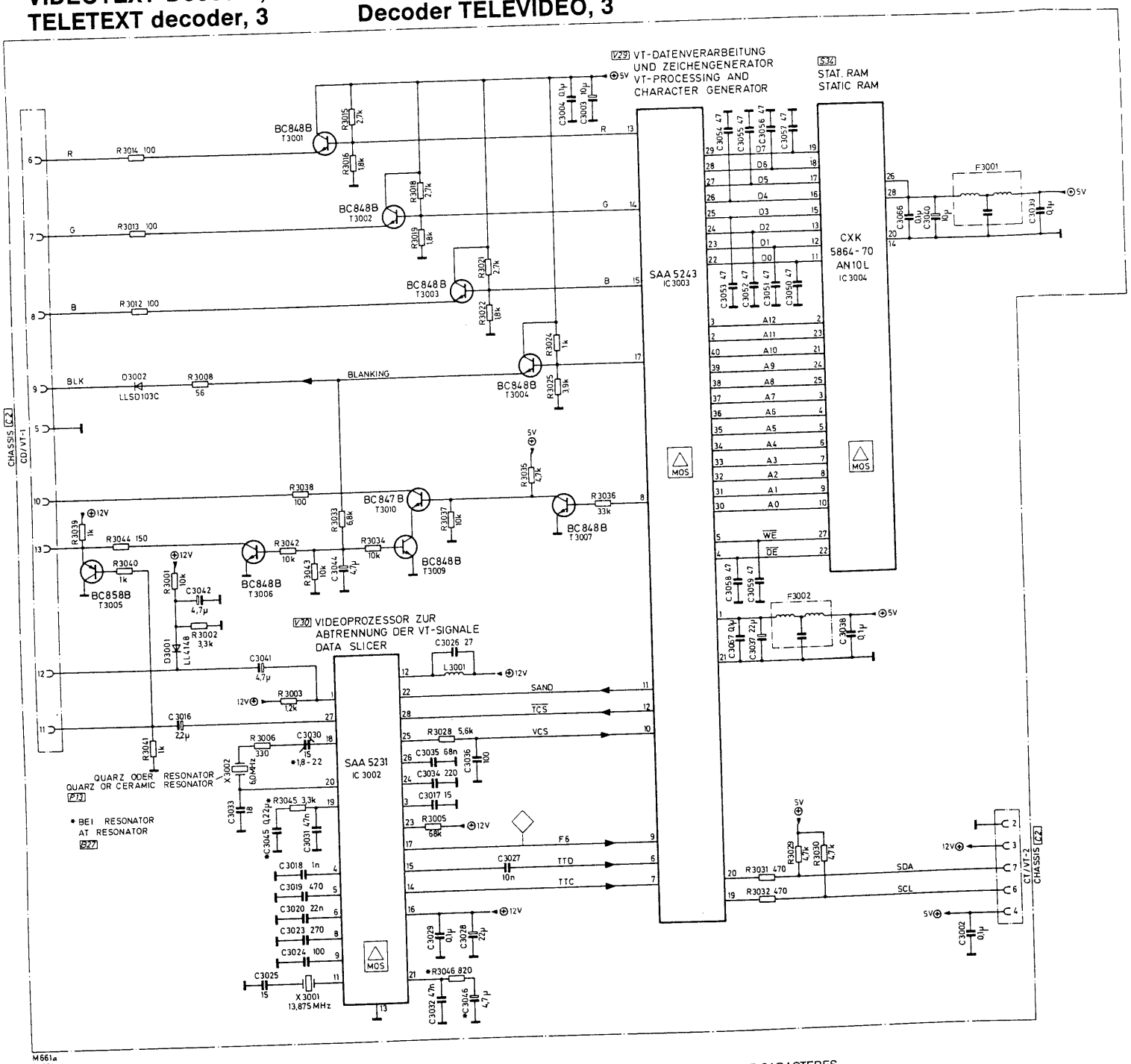
6911 11 61 → TV 39a → D 8

◄ 6911 11 67
6911 29 92 ►

D 9

VIDEOTEXT-Decoder, 3
TELETEXT decoder, 3
Décodeur VIDEOTEXT, 3
Decoder TELEVIDEO, 3

6911 11 66 (DE)



M661a
M661a

C2 PLATINE DE CHASSIS
PIASTRA CHASSIS

S34 RAM STAT.
RAM STATICA

V29 TRAITEMENT DE DONNER VIDEOTEXT ET GENERATEUR DE CARACTERES
ELABORAZIONE DATI TELEVIDEO E GENERATORE DI CARATTERI

V30 PROCESSEUR VIDEO POUR LA SEPARATION DES SIGNAUX VIDEOTEXT
PROCESSORE VIDEO PER LA SEPARAZIONE DEI SEGNALI TELEVIDEO

Schutzmaßnahmen für MOS-Bauelemente beachten!
Pay attention to protective measures for MOS components!
Respecter les mesures de protections pour les composants de MOS!
Osservare le misure protettive per gli elementi costruttivi MOS!

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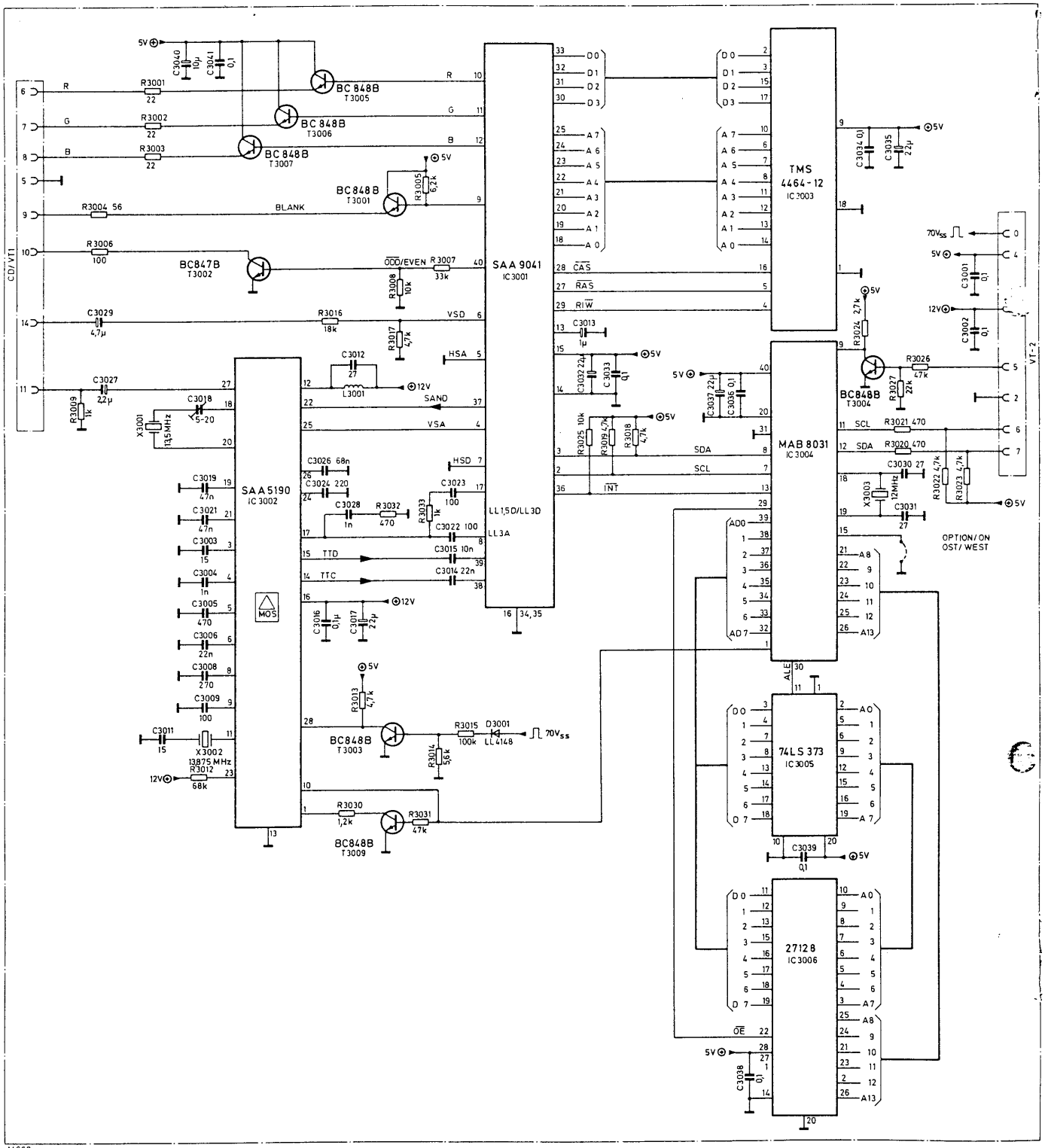
Bei Nachbestellungen von Manualen, Gerätetyp und Geräte-Ident-Nummer angeben.
When re-ordering manuals, please quote the model name and part number.
En cas de commande supplémentaire de manuels veuillez indiquer le type et le numéro de l'appareil.
En cas de commande supplémentaire de manuels veuillez indiquer le type et le numéro de l'appareil.
In caso di ordinazioni supplementari di manuali, indicare il modello dell'apparecchio ed il numero categorico.

VIDEOTEXT-Decoder, 1
TELETEXT decoder, 1
Décodeur VIDEOTEXT, 1
Decoder TELEVIDEO, 1
Decodificador de VIDEOTEXT, 1

6911 29 92 (DE/FLOF/TOP)



C2 PLATINE DE CHASSIS
PIASTRA CHASSIS
PLACA DE CHASIS

S34 RAM STAT.
RAM STATICA
ESTATICO RAM

V29 TRAITEMENT DE DONNER VIDEOTEXT ET GENERATEUR DE CARACTERES
ELABORAZIONE DATI TELEVIDEO E GENERATORE DI CARATTERI
PROCESAMIENTO DE DATOS DE VIDEOTEXTO Y GENERADOR DE CARACTERES

V30 PROCESSEUR VIDEO POUR LA SEPARATION DES SIGNAUX VIDEOTEXT
PROCESSORE VIDEO PER LA SEPARAZIONE DEI SEGNALI TELEVIDEO
PROESADOR VIDEO PARA SEPARAR LAS SENALES DE VIDEOTEXTO

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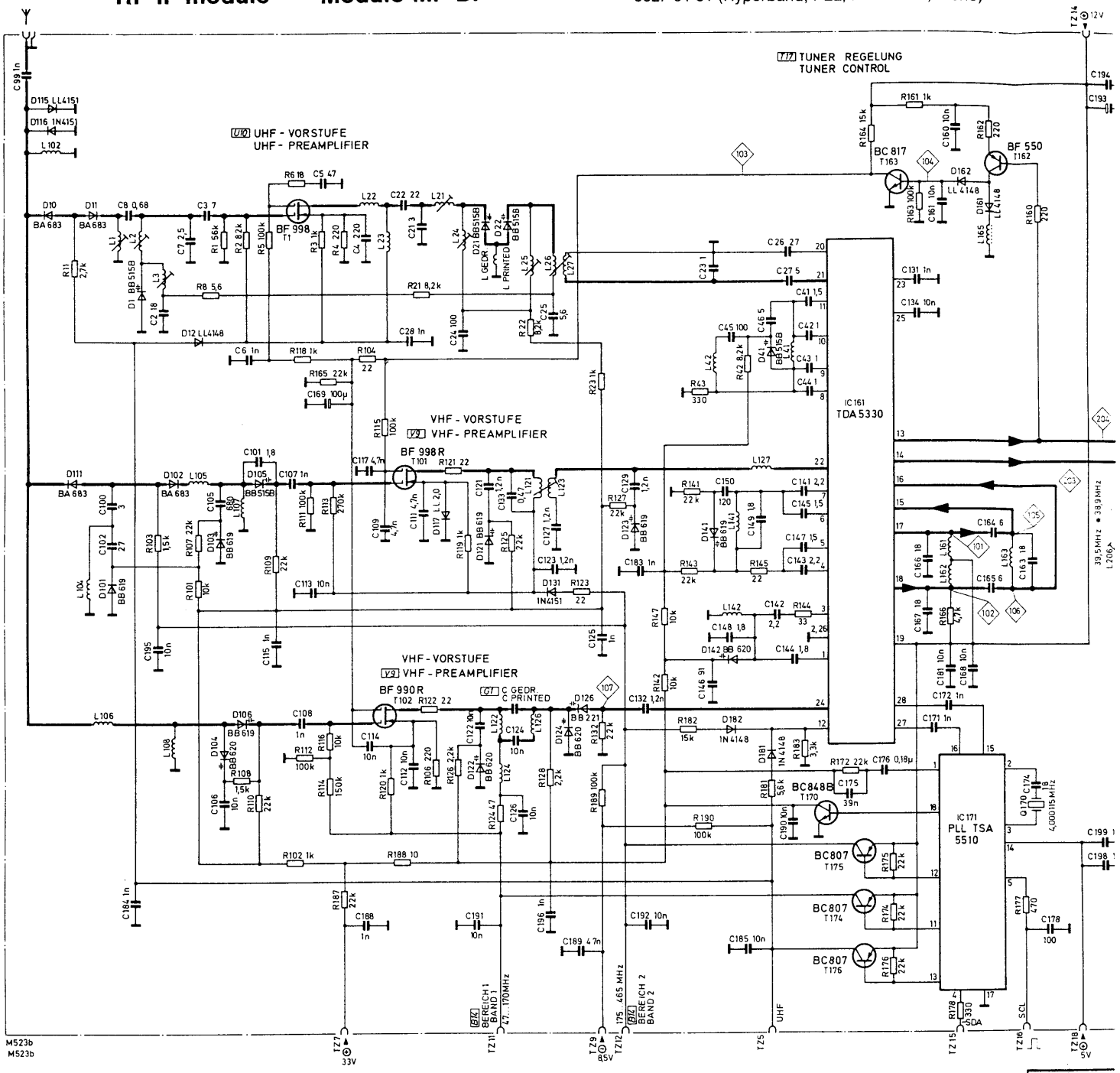
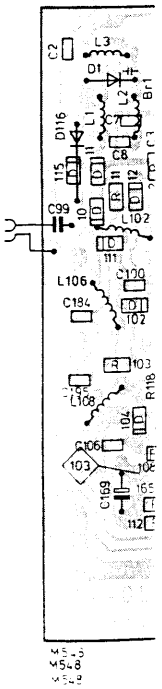
HF-ZF Modul
RF-IF module

Module HF-MF
Modulo MF-BF

5827 01 31 (Hyperband, PLL, Norm B/G, Mono)





Nach Austausch des Moduls sind keine Abgleicharbeiten erforderlich.

Replacing a defective module does not necessitate realignment.

Aucun ajustage n'est necessaire en cas remplacement du module.

Nel caso di sostituzione del moduli non è necessaria nessuna taratura.

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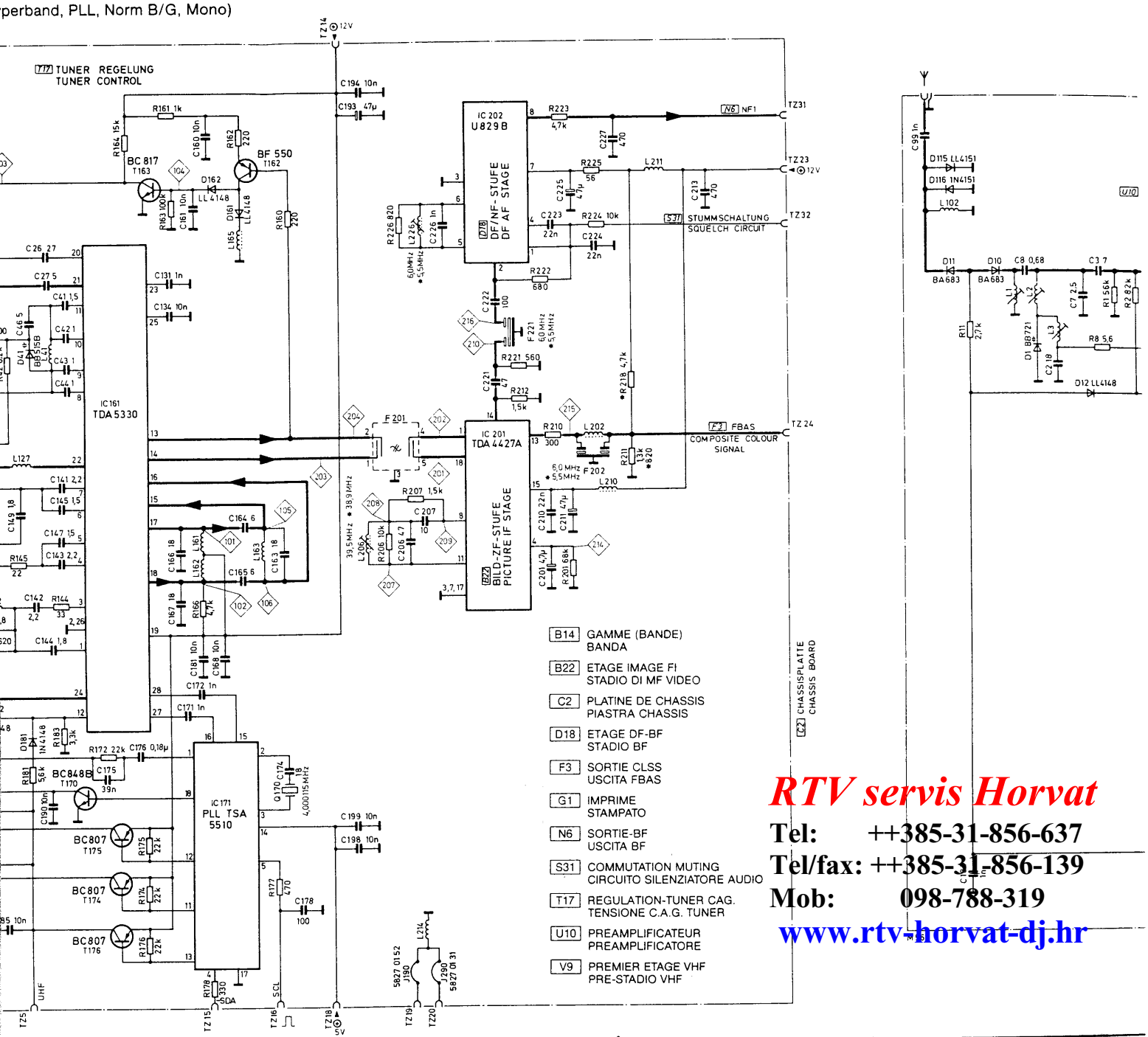

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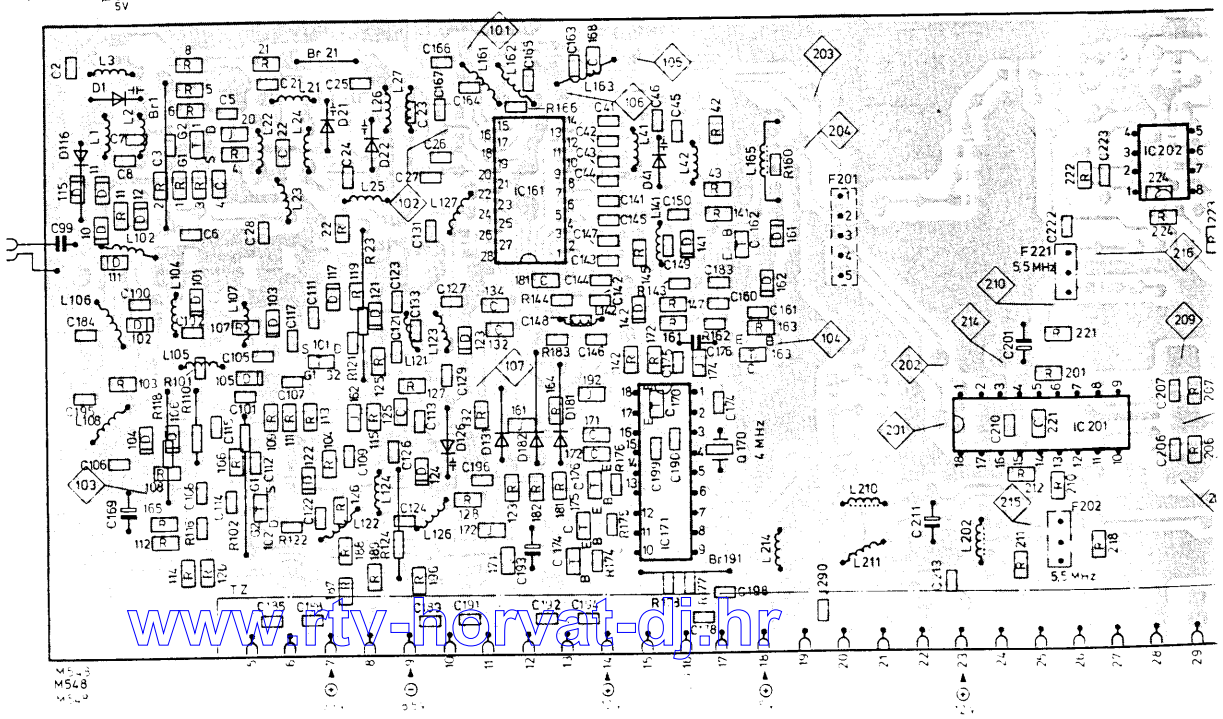

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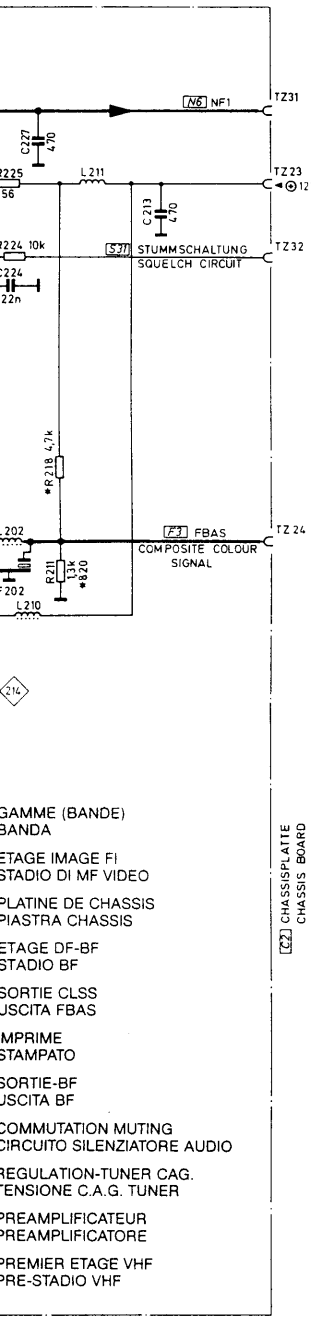
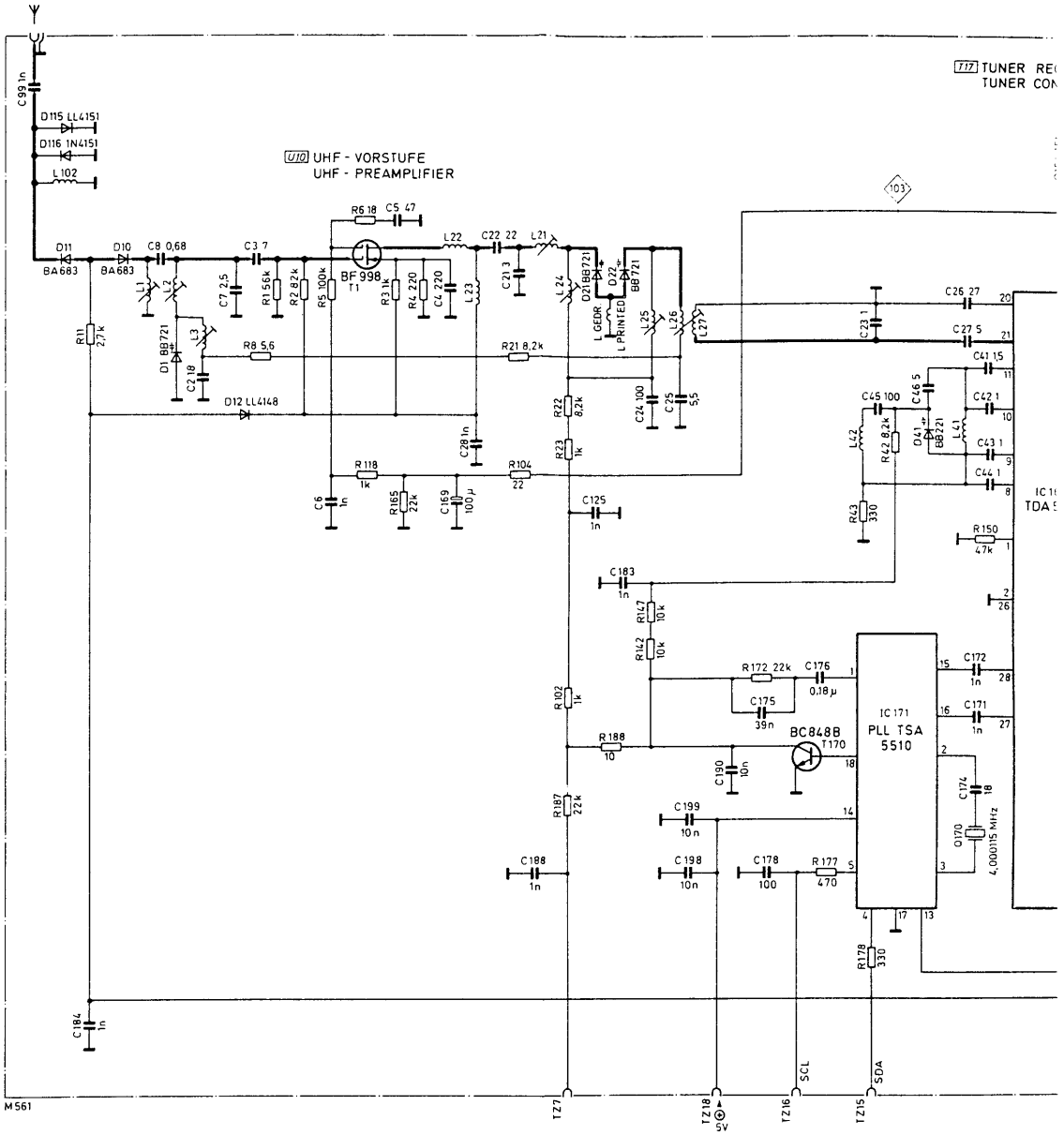
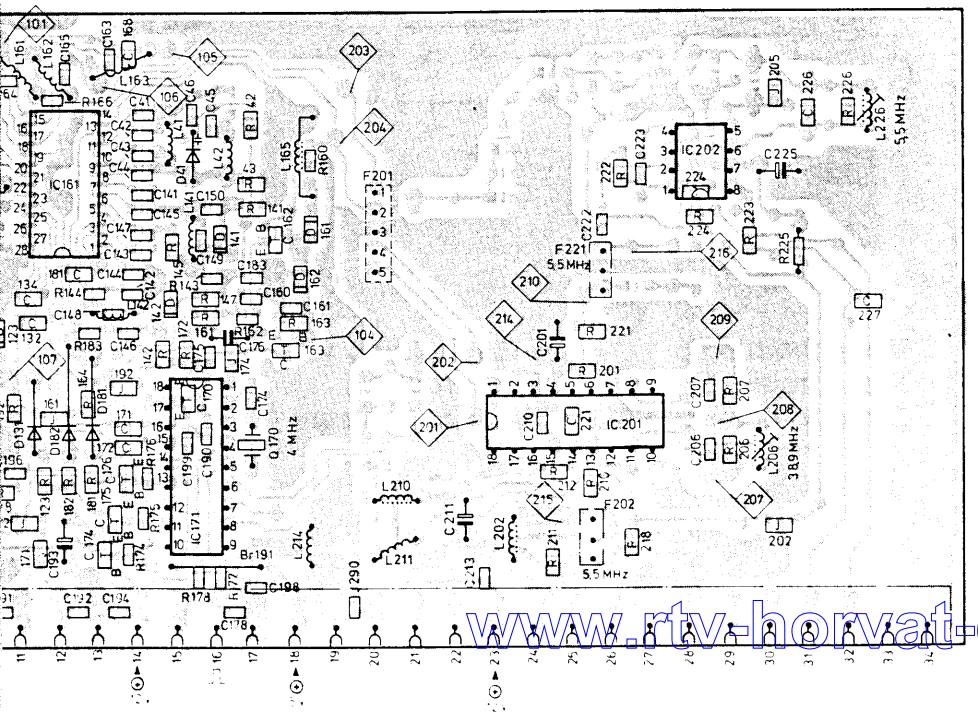
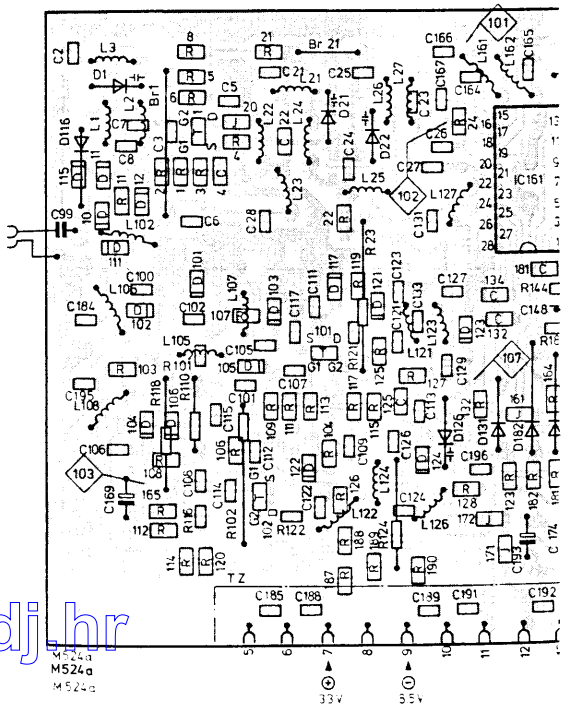
B 26









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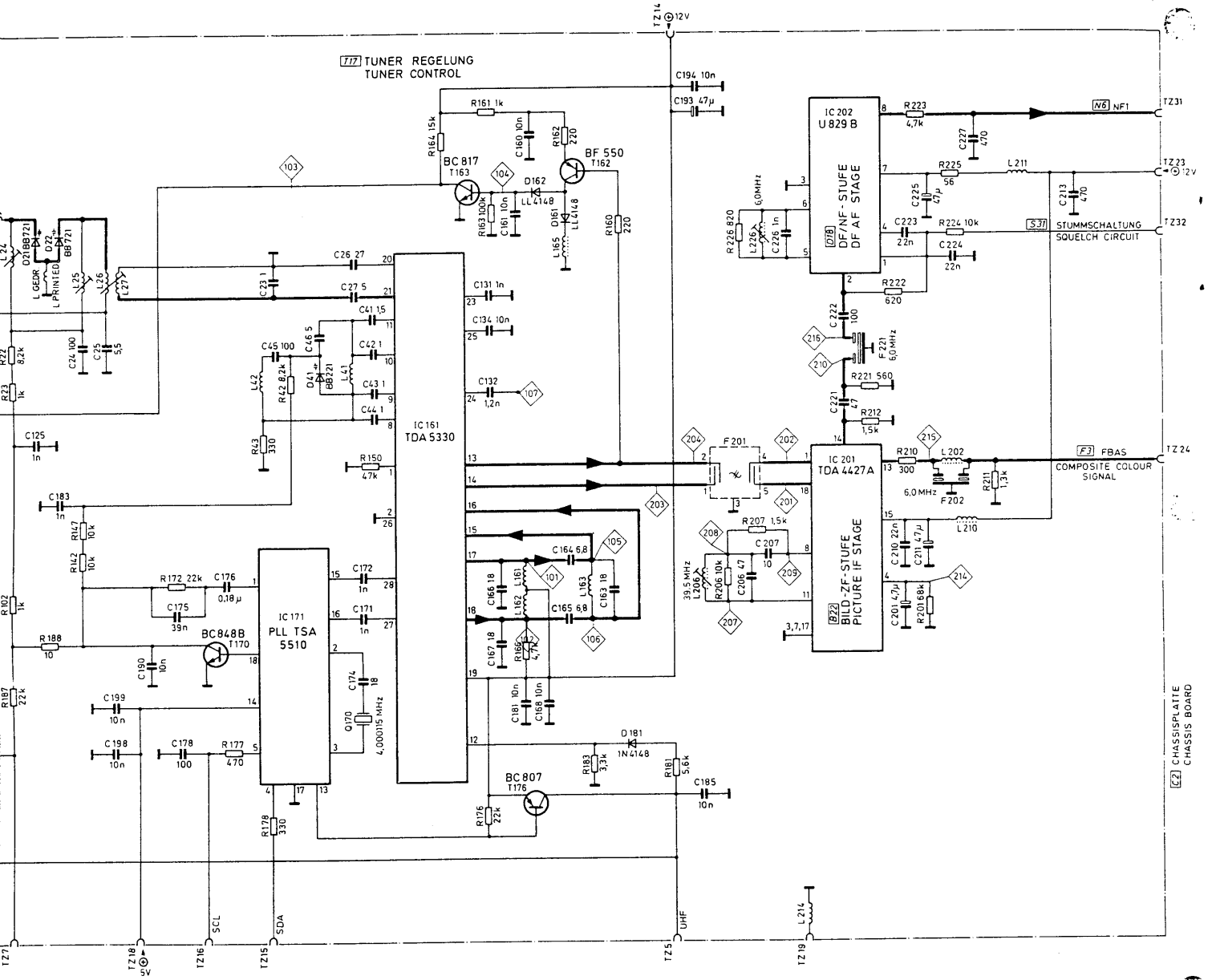
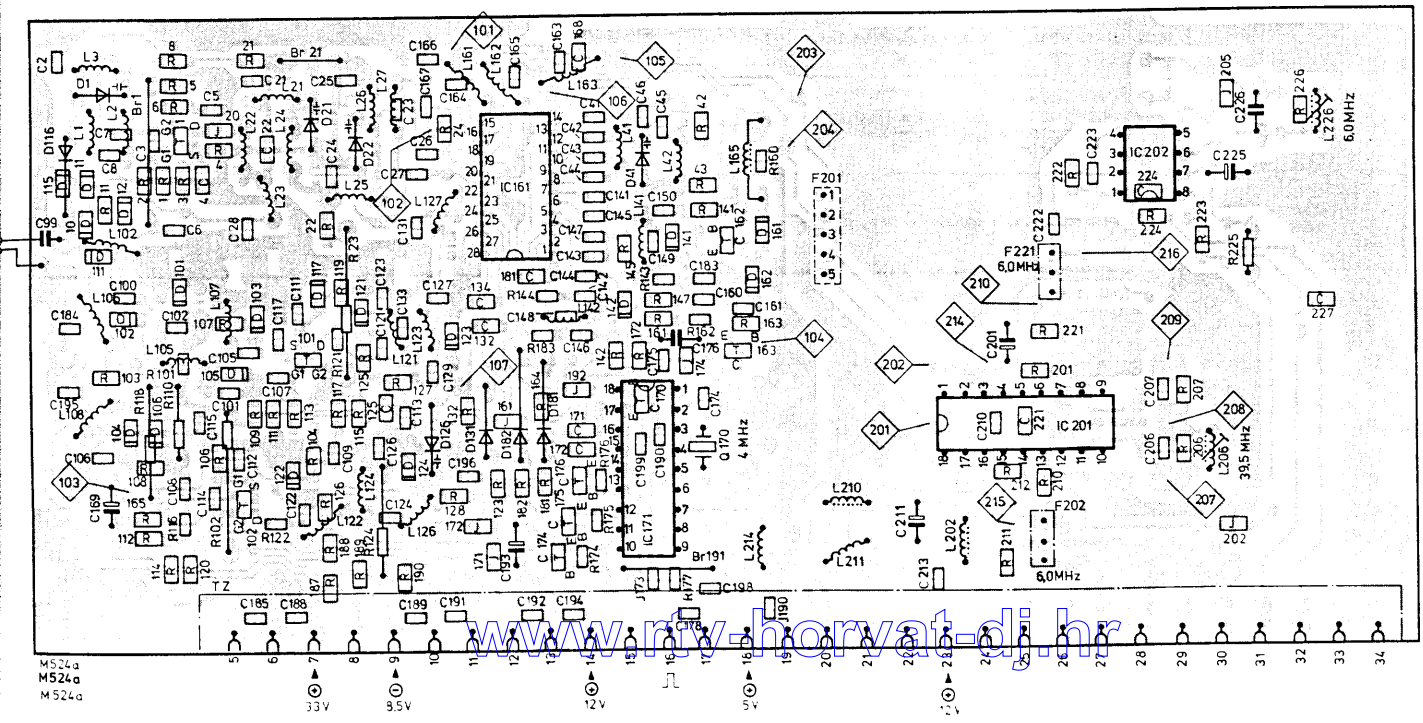
RF-IF module (UK)

5827 02 51 (PLL/6,0 MHz)





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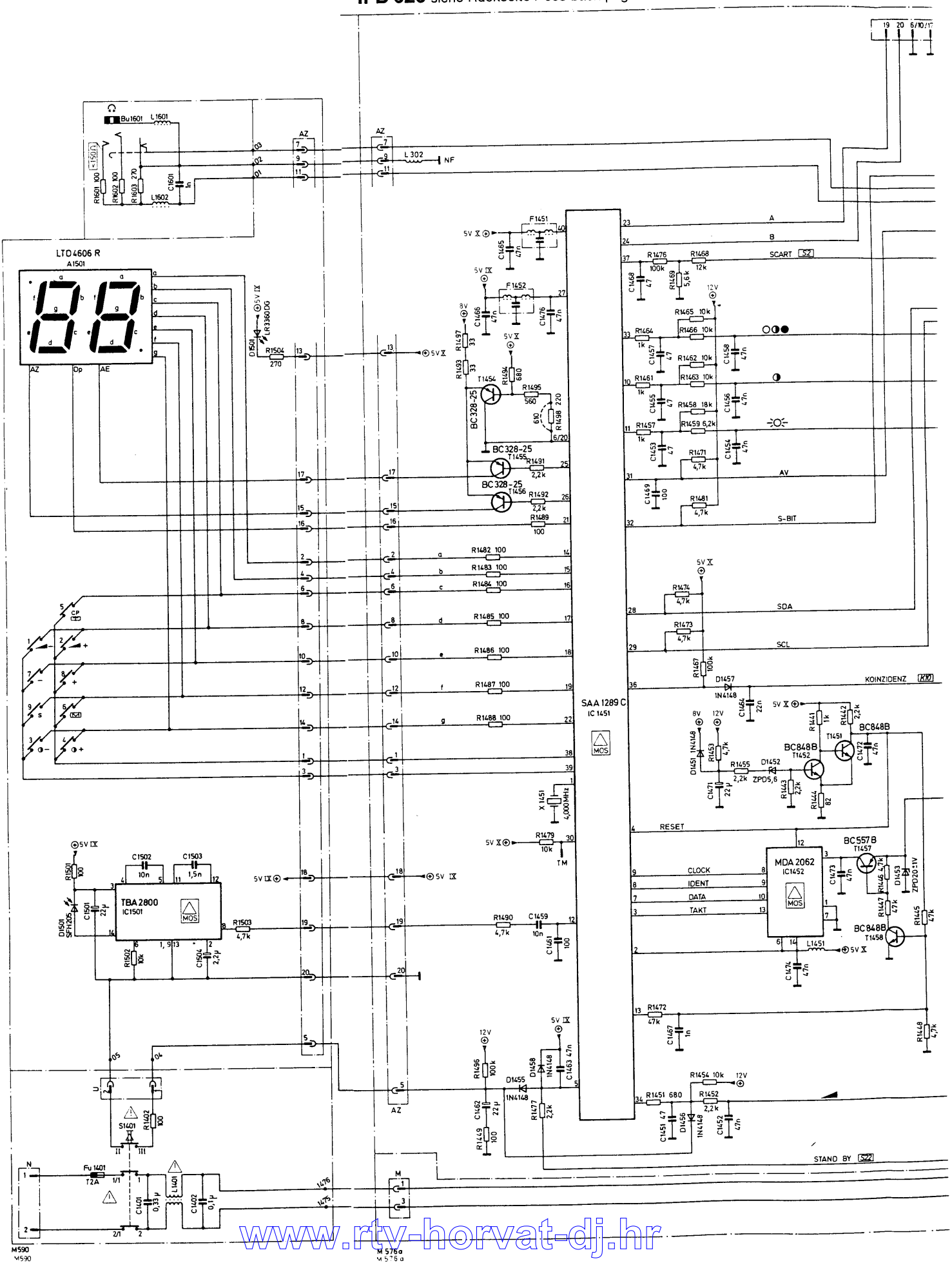
IFB 624 5883 30 15

IFB 620, IFB 621, IFB 625, IFB 629 → TV 23a → A 23a
IFB 627, IFB 628 → TV 24a → A 24a

IFB 626 siehe Rückseite / see back page / voir au dos / vedi retro



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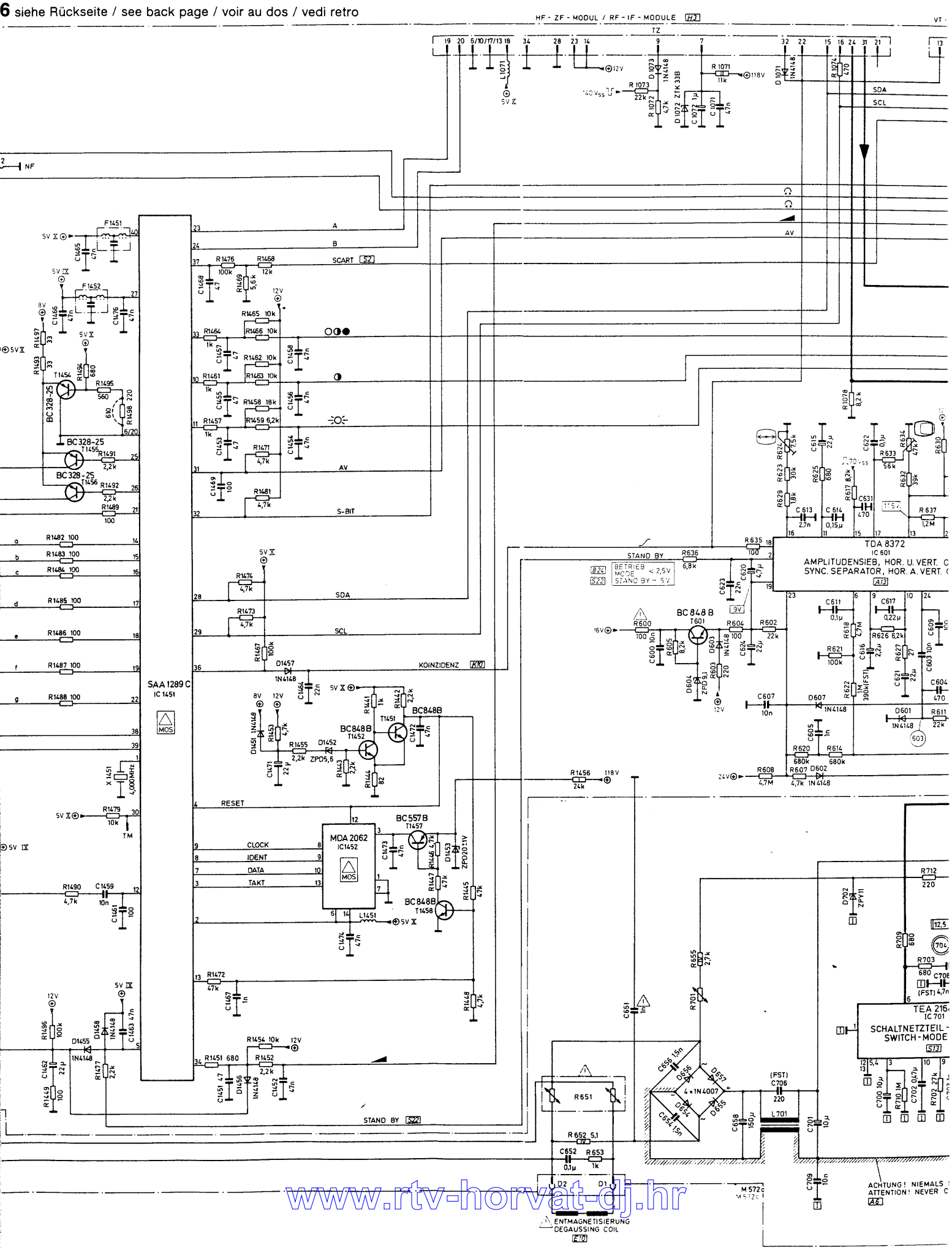
Core-Chassis 2 (90°



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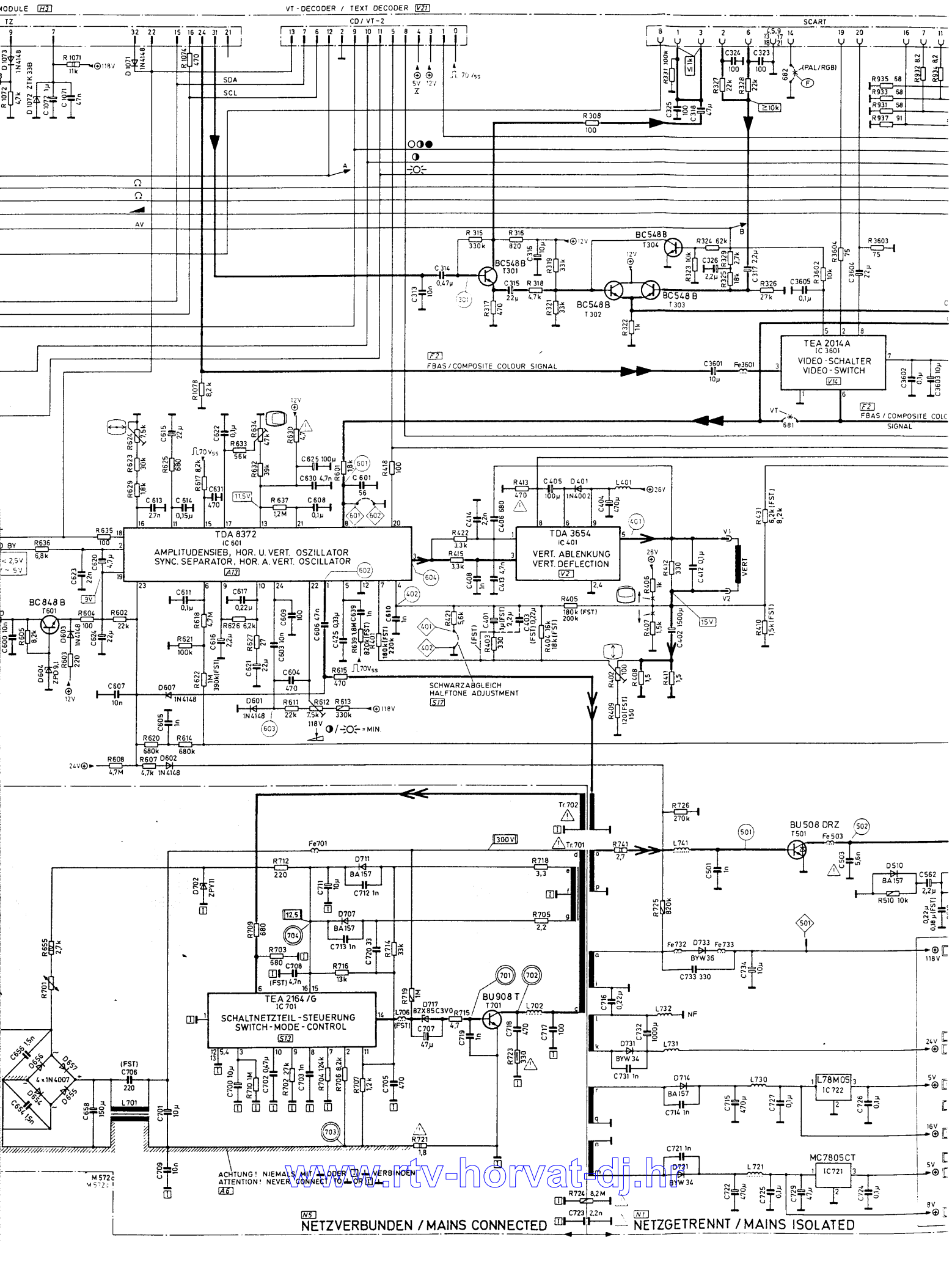
Core-Chassis 2 (90°) MN

A 23b

5861 **78** 13 (PS)
5861 **78** 43 (FST/PS)
5861 **78** 11 (PAL/RGB)
5861 **78** 41 (FST/PAL/RGB)



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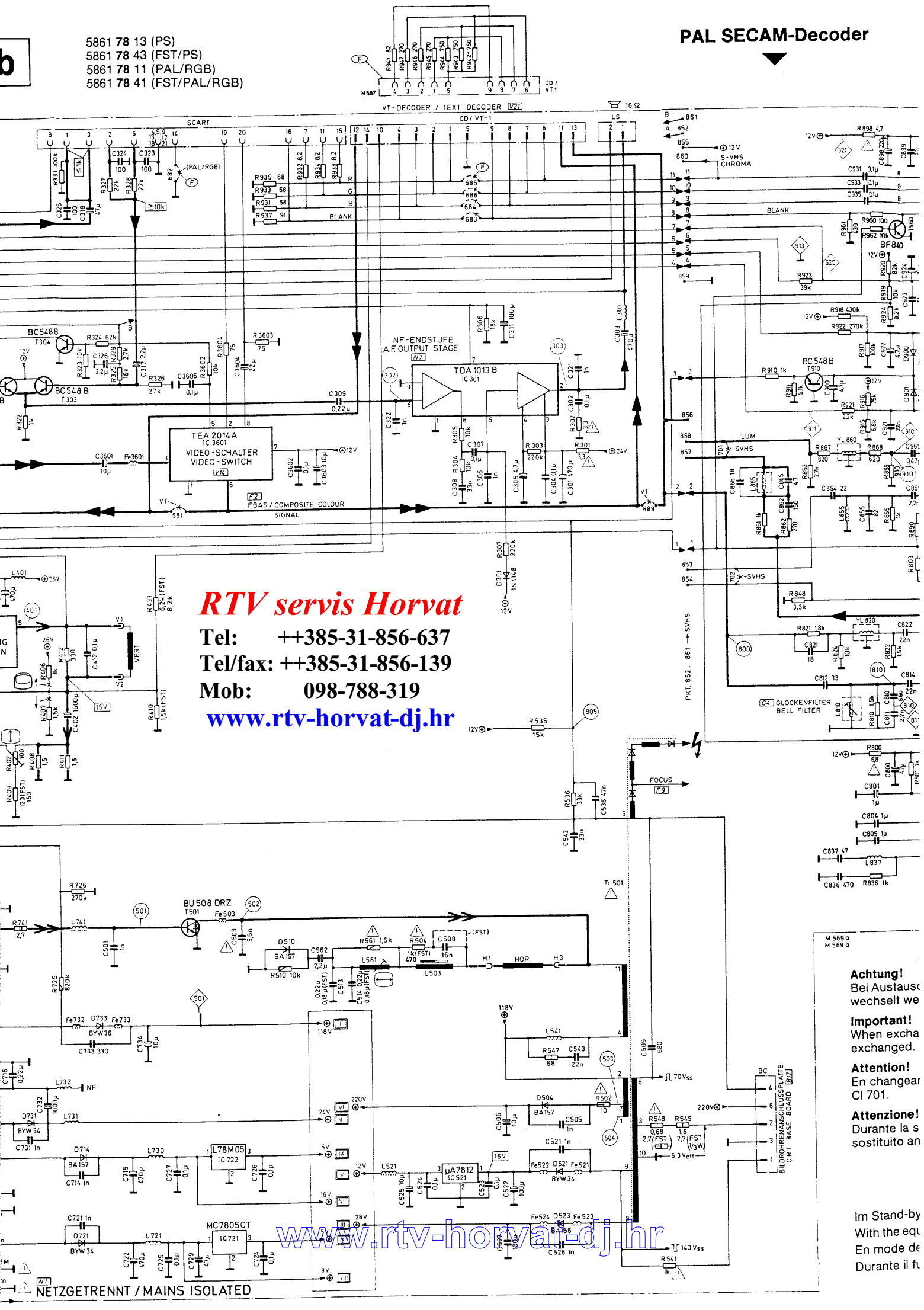
b

5861 **78** 13 (PS)
5861 **78** 43 (FST/PS)
5861 **78** 11 (PAL/RGB)
5861 **78** 41 (FST/PAL/RGB)

PAL SECAM-Decoder



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Achtung!
Bei Austausc
wechselt we

Important!
When excha
exchanged.

Attention!
En changeat
CI 701.

Attenzione!
Durante la s
sostituito an

Im Stand-by
With the equ
En mode de
Durante il fu

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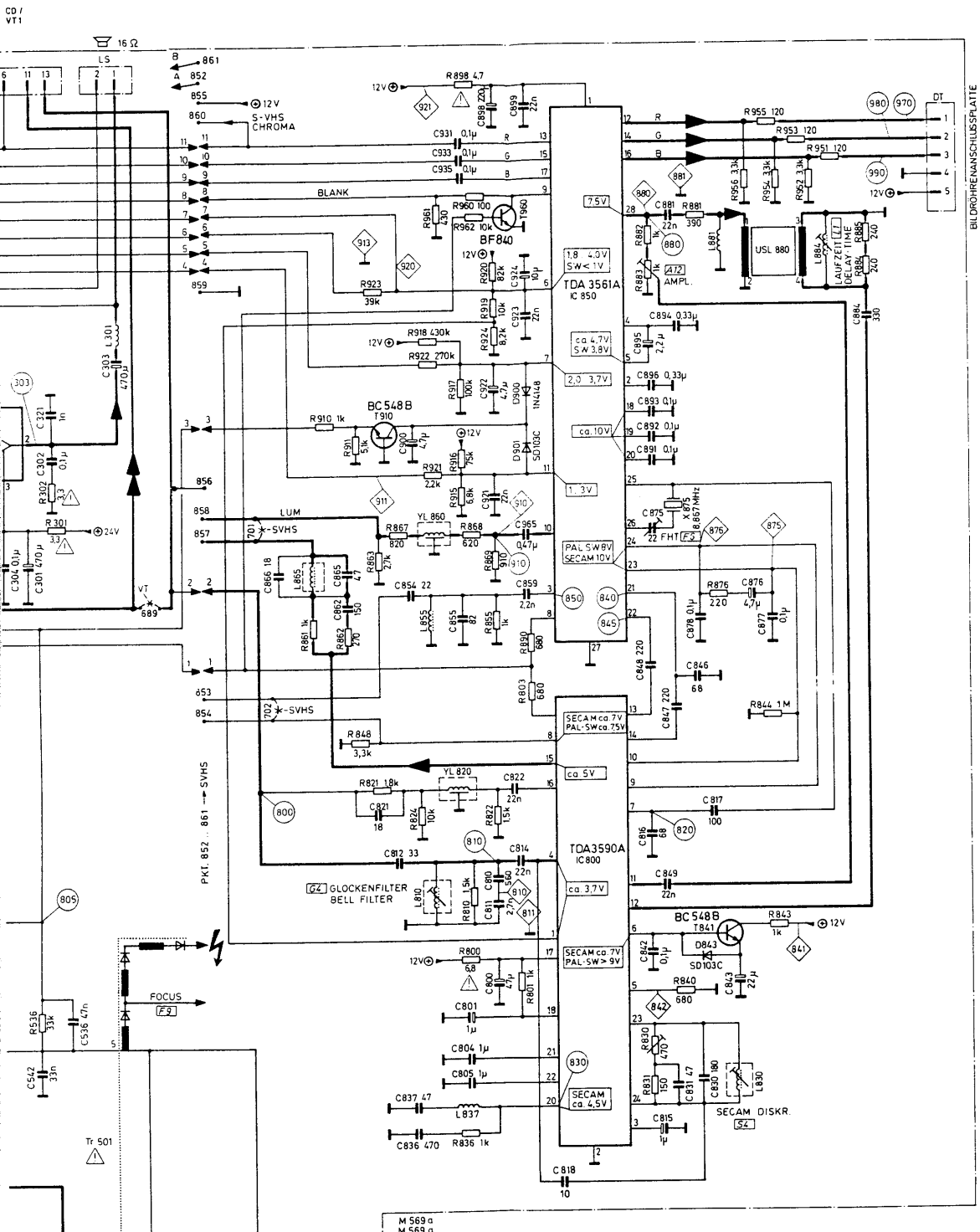
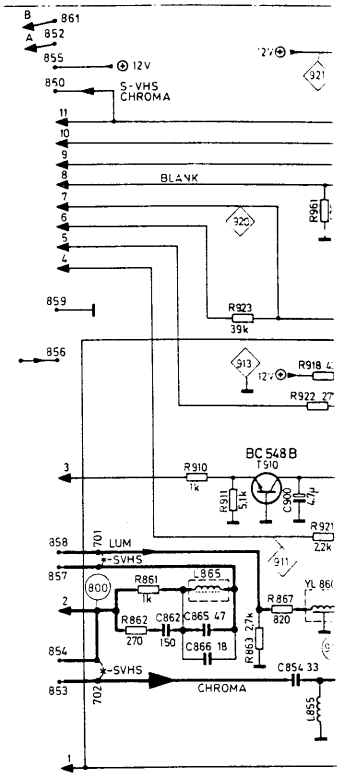
PAL SECAM-Decoder

PAL-Decoder, RGB





M 568 a
M 568 a

Alle Decoderoszillogramme sind unter fol
aufgenommen: Normfarbbalken PAL bzw.
Kontrast. ca. Nennhelligkeit und nominale Sa

The decoder waveforms are taken under
Standard PAL that is, SECAM colour par pat
mum and brightness and colour saturation a

Tous les oscillogrammes mesurés sur le dé
les conditions suivantes: Norme de mire de t
ment SECAM, contrast au maximum, lumin
leur aux valeurs nominales.

Tutti gli oscillogrammi decoder sono stati fat
zioni: generatore di barre PAL oppure SEC
sto, approssimativamente luminosità e satur

M 569 a
M 569 a

Achtung!
Bei Austausch von T 701 muß auch IC 701 ausgewechselt werden.

Important!
When exchanging T 701, IC 701 must likewise be exchanged.

Attention!
En changeant le T 701 il faut remplacer aussi le CI 701.

Attenzione!
Durante la sostituzione di T 701 deve essere sostituito anche IC 701.

Belastbarkeit der Widerstände
Power rating of resistors
Wattage des résistances
Carico ammissibile per le resist

1/8W
1/3W
1/2W
1W
2W
3W

Im Stand-by-Betrieb führen Schaltnetzteil und Hor. Endstufe verringerte Spannungswerte.
With the equipment switched to stand-by, the voltages of the switched-mode power supply and the horizontal c
En mode de fonctionnement stand by les blocs secteur de commutation et l'étage finale hor. délivrent des v
Durante il funzionamento standby, il blocco di comando della rete e lo stadio finale orizzontale eliminano valc

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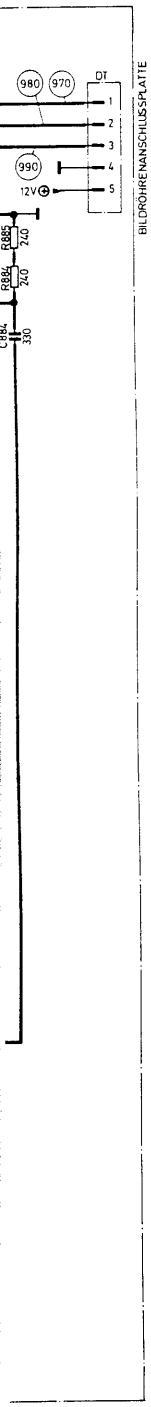
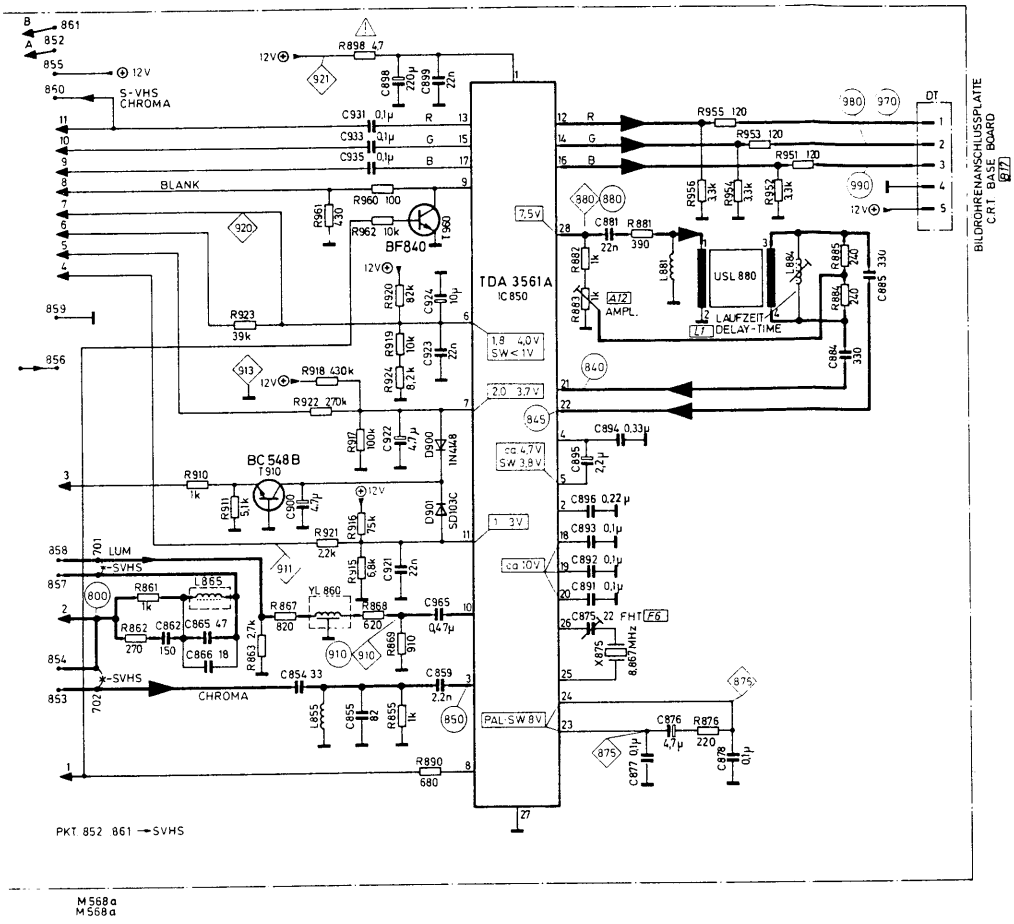
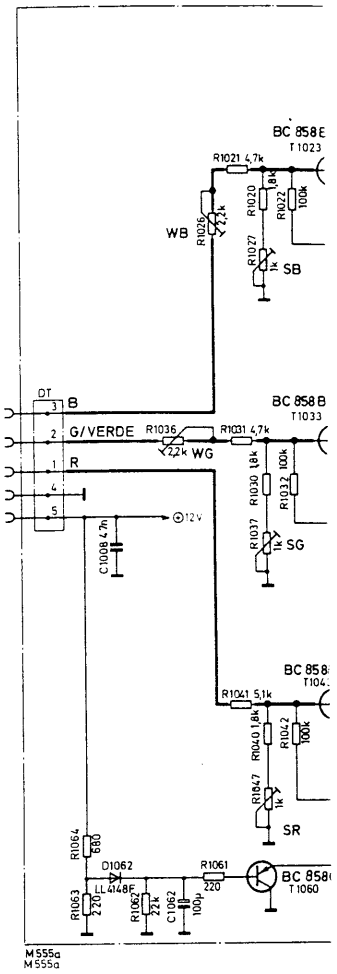




M568a
M568a



M555a
M555a

Alle Decoderoszillogramme sind unter folgenden Bedingungen aufgenommen: Normfarbbalken PAL bzw. SECAM, maximaler Kontrast, ca. Nennhelligkeit und nominale Sättigung.

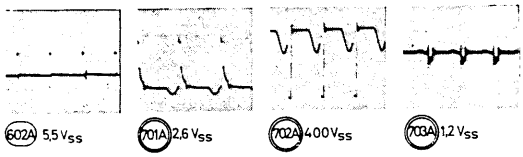
The decoder waveforms are taken under following conditions: Standard PAL that is, SECAM colour par pattern, contrast at maximum and brightness and colour saturation at nominale value.

Tous les oscillogrammes mesurés sur le décodeur sont pris sous les conditions suivantes: Norme de mire de barre PAL, respectivement SECAM, contrast au maximum, luminosité et intensité couleur aux valeurs nominales.

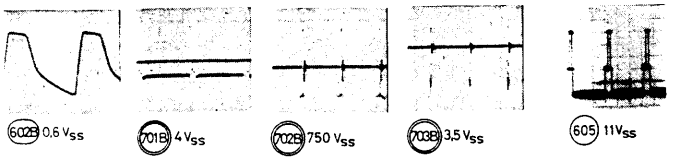
Tutti gli oscillogrammi decoder sono stati fatti nelle seguenti condizioni: generatore di barre PAL oppure SECAM, massimo contrasto, approssimativamente luminosità e saturazione normali.

Oszil
Oscil
Oscil
Oscil

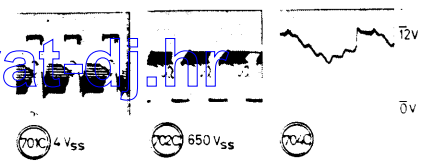
Ⓐ Oszillogramme bei Stand-by-Betrieb
Waveforms at stand-by mode
Oscillogrammi in modo «stand-by»



Ⓑ Oszillogramme bei Sicherungsbetrieb (Überlast)
Waveforms at overload mode
Oscillogrammi in modo di sovraccarico



Ⓒ Oszillogramme bei fehlenden Horizontal-Impulsen an IC 601, Pin 1
Waveforms when horizontal pulse is deficient, at IC 601, Pin 1
Oscillogrammi misurati dall'IC 601, pin 1, al mancare degli impulsi orizzontali.



Belastbarkeit der Widerstände
Power rating of resistors
Wattage des résistances
Carico ammissibile per le resistenze

1/8W	IV 4W
1/3W	V 5W
1/2W	VII 7W
1W	IX 9W
2W	XI 11W
3W	XVII 17W

ıdstufe verringerte Spannungswerte.
of the switched-mode power supply and the horizontal output stage are below nominal value.
ur de commutation et l'ètage finale hor. dèlivrent des valeurs de tensione diminuées.
do della rete e lo stadio finale orizzontale eliminano valori della tensione ridotti.

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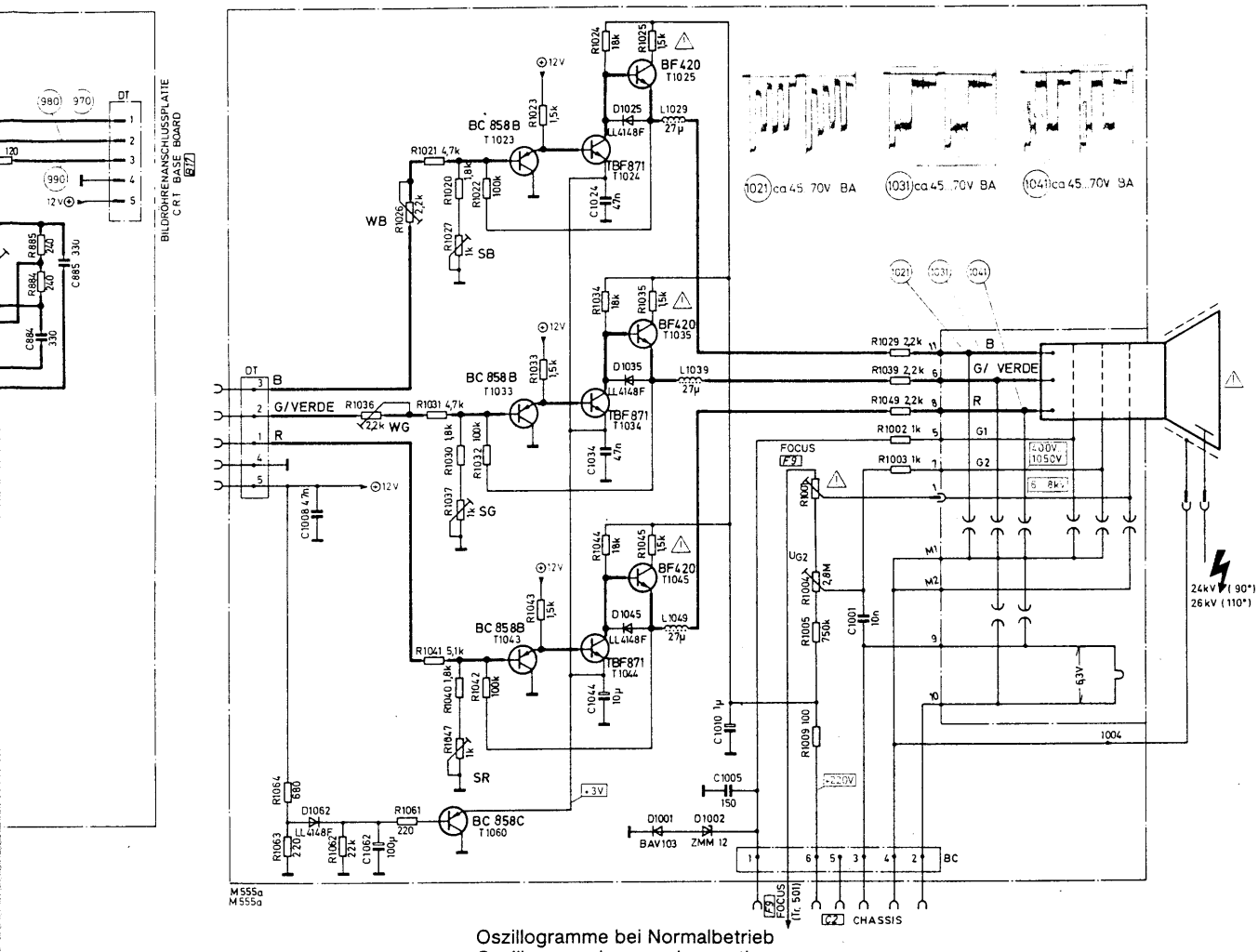
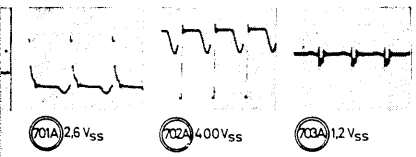
Bildröhrenanschluß / C.R.T. base board
Connexion tube image / Collegamento cinescopio

6911 39 72 (NN)
6911 39 75 (NN/FST/VP)

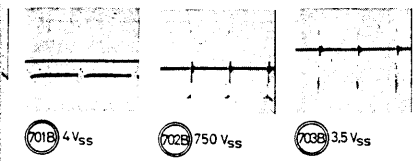


Oszillogramme bei Normalbetrieb
Oscillograme in normal operation
Oscillogrammes en mode de fonctionnement normal
Oscillogrammi in presenza di esercizio normale

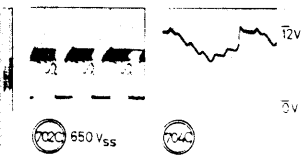
amme bei Stand-by-Betrieb
ms at stand-by mode
ammi in modo «stand-by»

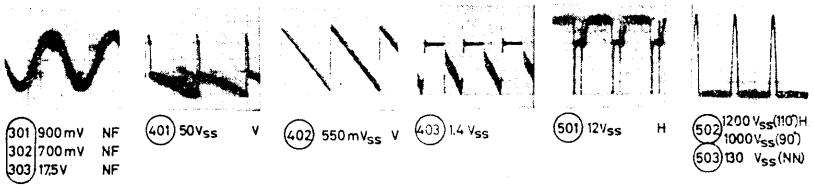


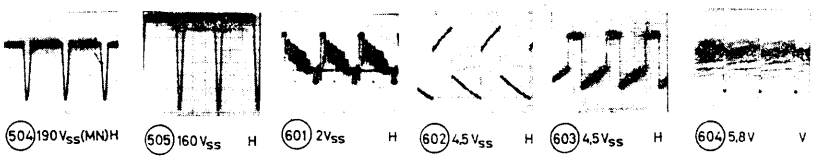
amme bei Sicherungsbetrieb
t)
ms at overload mode
ammi in modo di sovraccarico

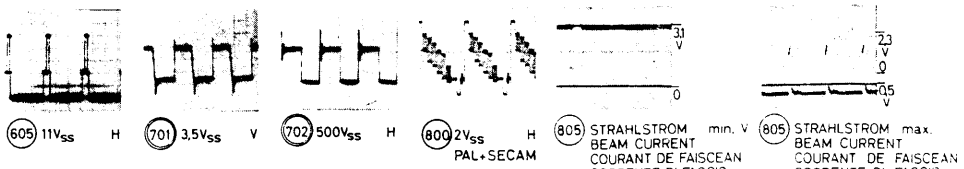


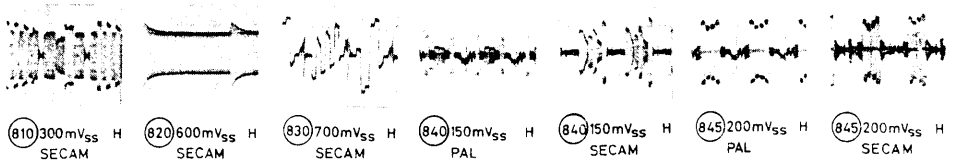
amme bei fehlenden Horizon-
sen an IC 601, Pin 1
ms when horizontal pulse is
, at IC 601, Pin 1
ammi misurati dall'IC 601, pin 1,
re degli impulsi orizzontali.

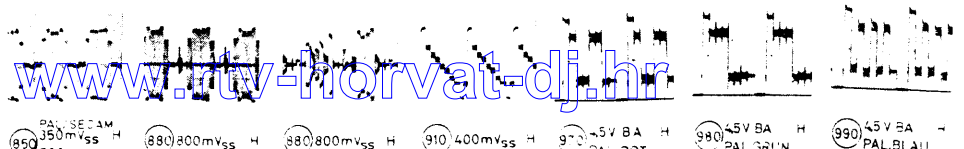












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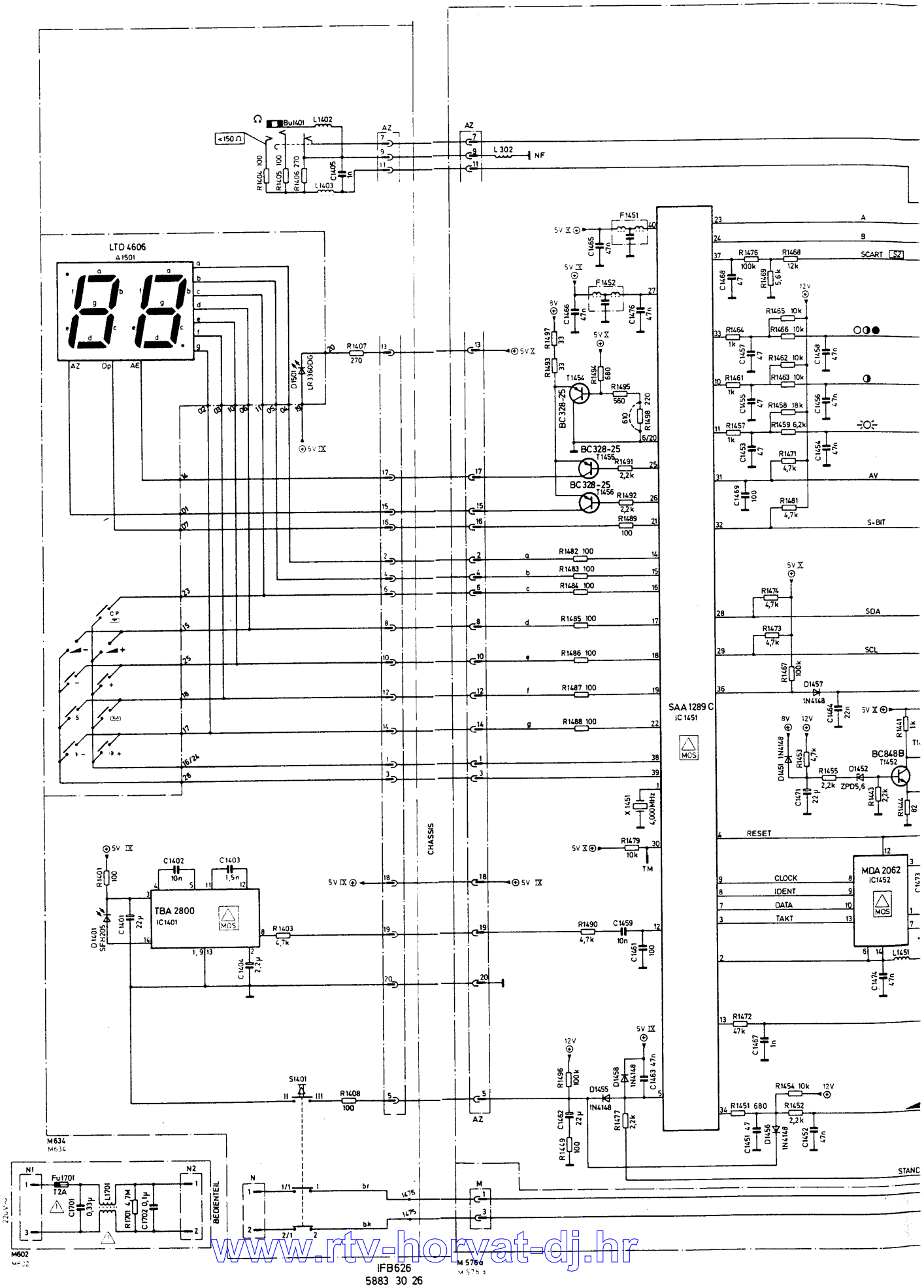
IFB 626 5883 30 26

IFB 620, IFB 621, IFB 625, IFB 629 → TV 23a →
IFB 627, IFB 628 → TV 24a → A 24a



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B 624 siehe Rückseite / see back page / voir au dos / vedi retro

Core-Chassis 2 (90°) NN

B 620, IFB 621, IFB 625, IFB 629 → TV 23a → A 23a
B 627, IFB 628 → TV 24a → A 24a

RTV servis Horvat
Tel: ++385-31-856-637
Tel/fax: ++385-31-856-139
Mob: 098-788-319
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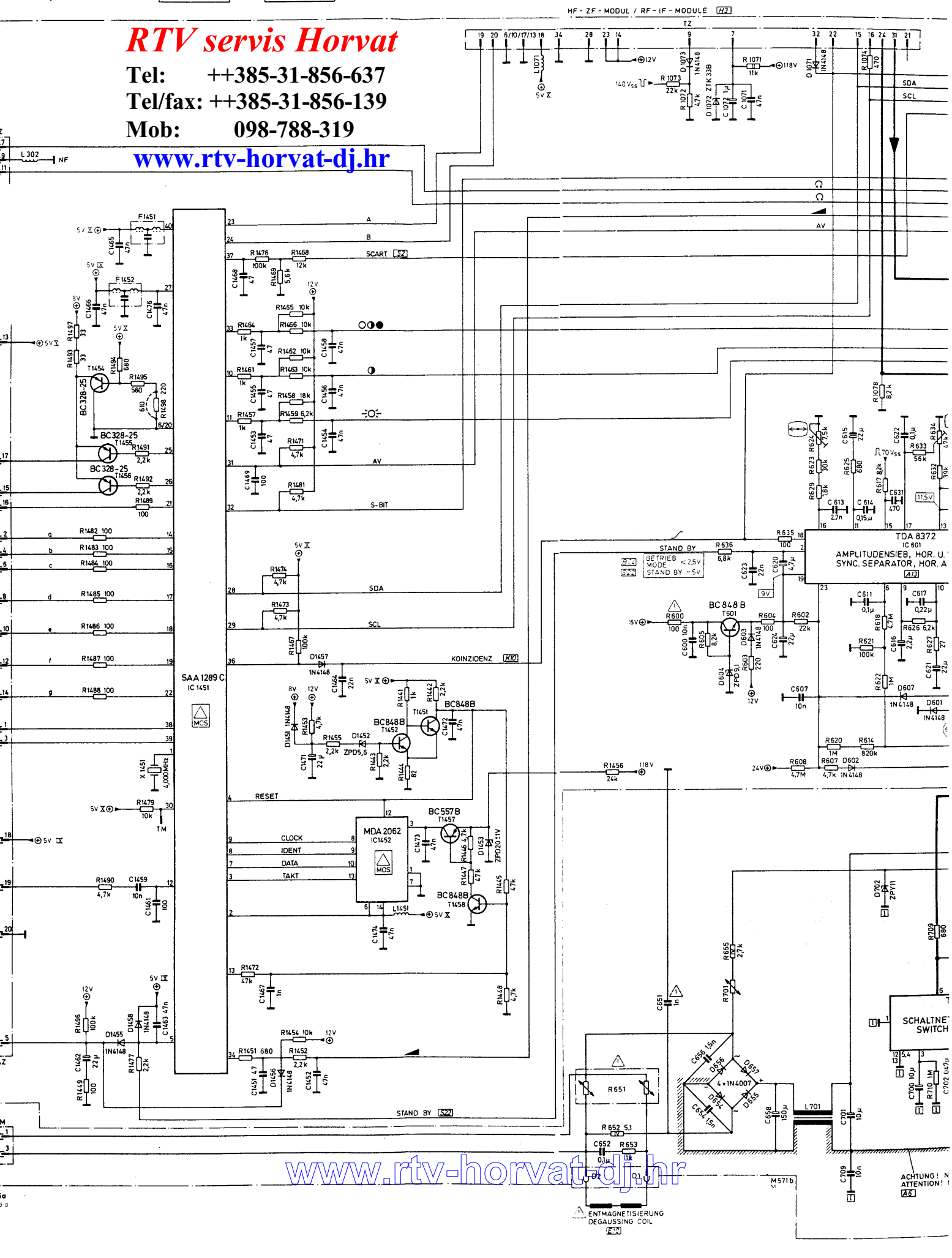

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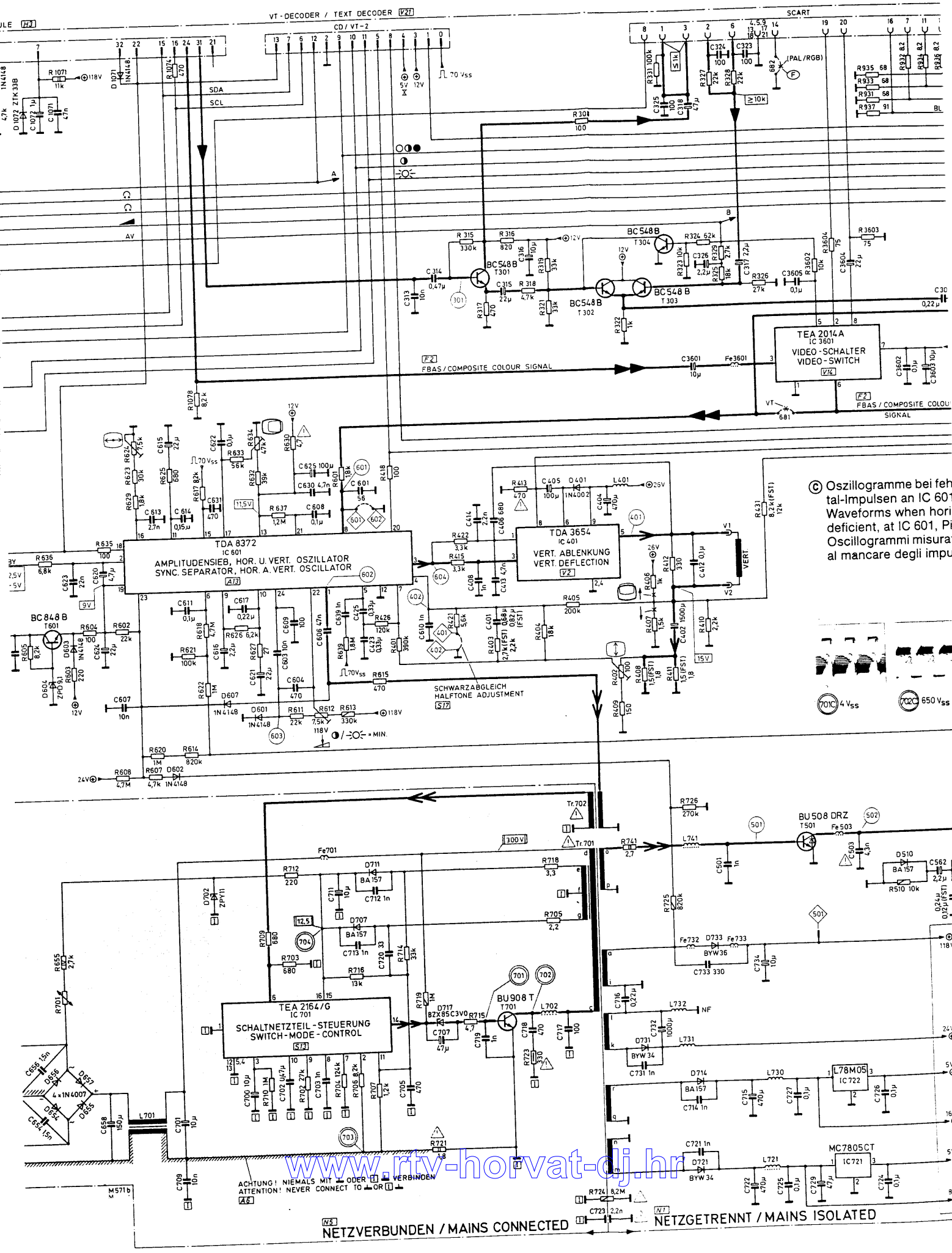
Chassis 2 (90°) NN

5861 **78** 53 (PS)
5861 **78** 03 (FST/PS)
5861 **78** 51 (PAL/RGB)
5861 **78** 01 (FST/PAL/RGB)



© Oszillogramme bei feh
tal-Impulsen an IC 601
Waveforms when hori
deficient, at IC 601, Pi
Oscillogrammi misurat
al mancare degli impu

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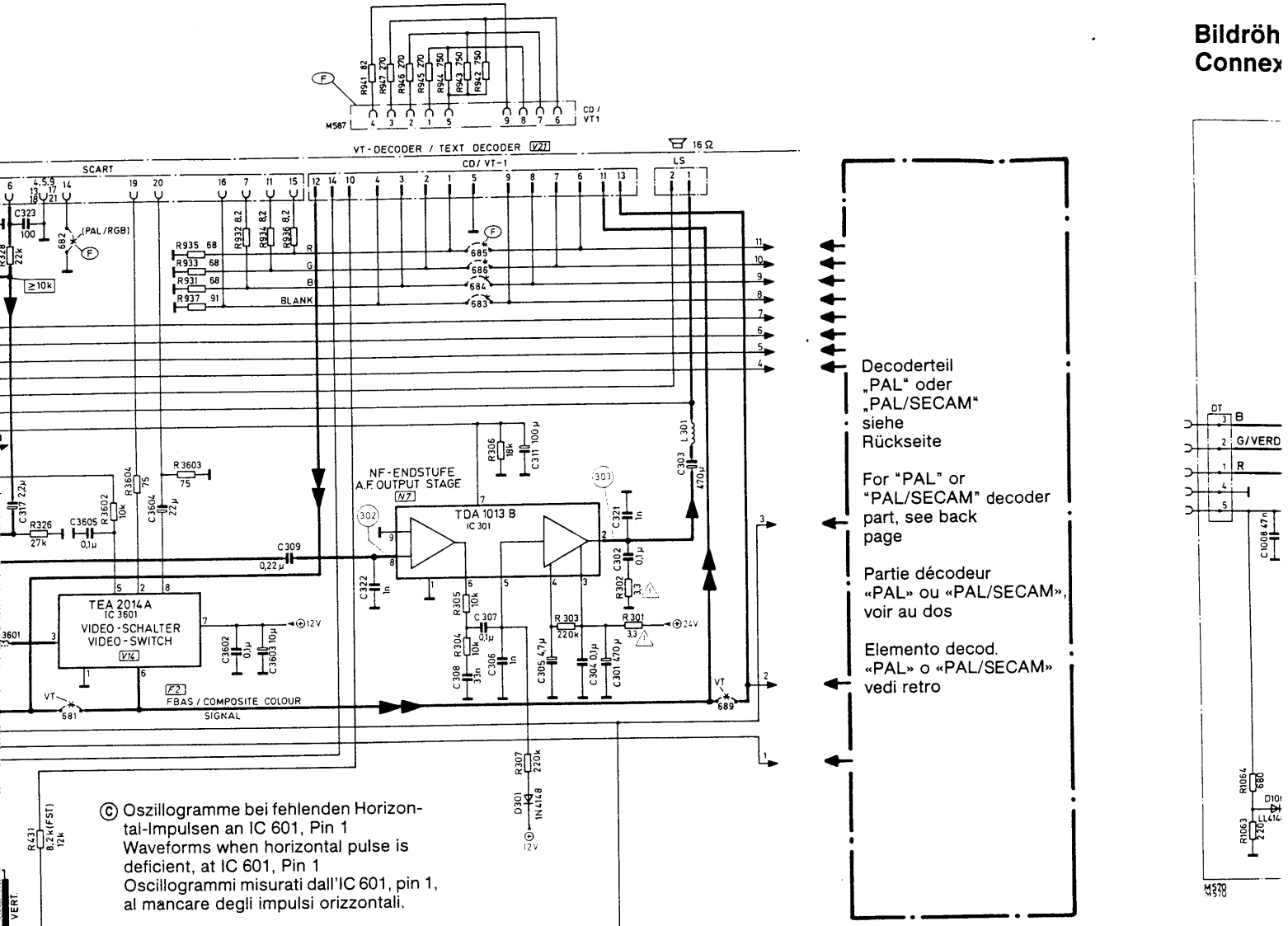


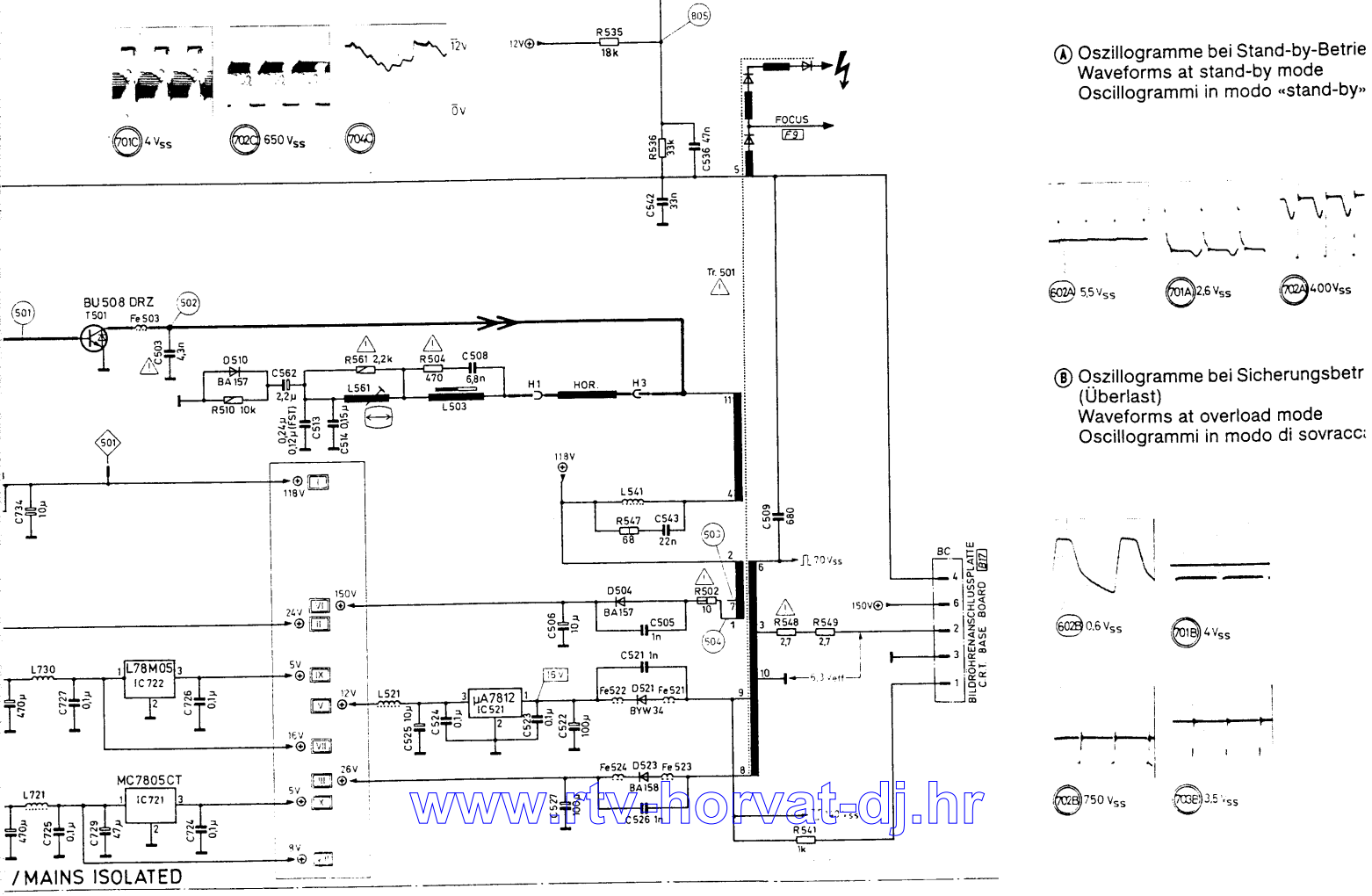
Decoderteil
„PAL" oder
„PAL/SECAM"
siehe
Rückseite

For "PAL" or
"PAL/SECAM" decoder
part, see back
page

Partie décodeur
«PAL» ou «PAL/SECAM»,
voir au dos

Elemento decod.
«PAL» o «PAL/SECAM»
vedi retro

Ⓒ Oszillogramme bei fehlenden Horizontal-Impulsen an IC 601, Pin 1
Waveforms when horizontal pulse is deficient, at IC 601, Pin 1
Oscillogrammi misurati dall'IC 601, pin 1, al mancare degli impulsi orizzontali.



Ⓐ Oszillogramme bei Stand-by-Betrie
Waveforms at stand-by mode
Oscillogrammi in modo «stand-by»

Ⓑ Oszillogramme bei Sicherungsbetr
(Überlast)
Waveforms at overload mode
Oscillogrammi in modo di sovracc

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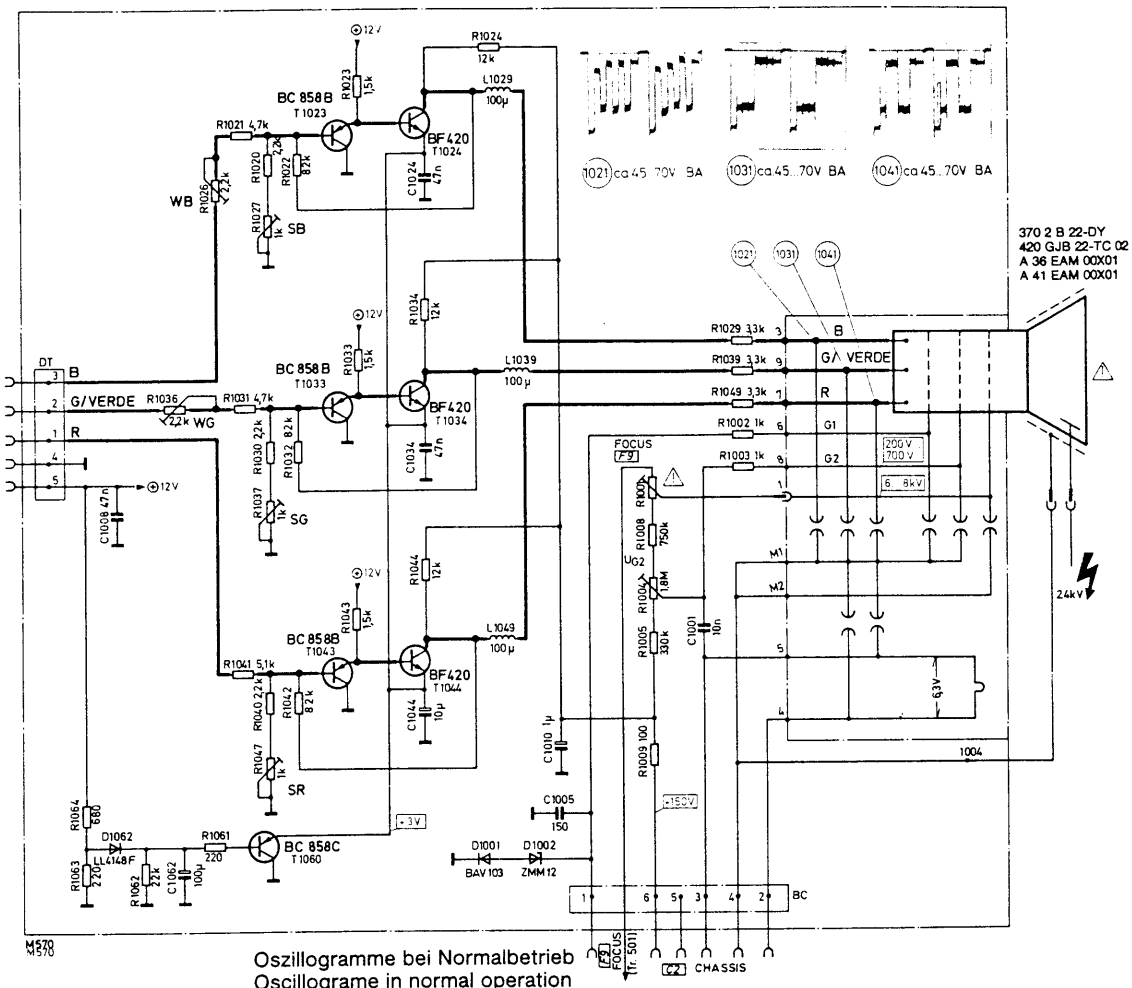
Bildröhrenanschluß / C.R.T. base board
Connexion tube image / Collegamento cinescopio 6911 39 73 (MN)



Oszillogramme bei Normalbetrieb
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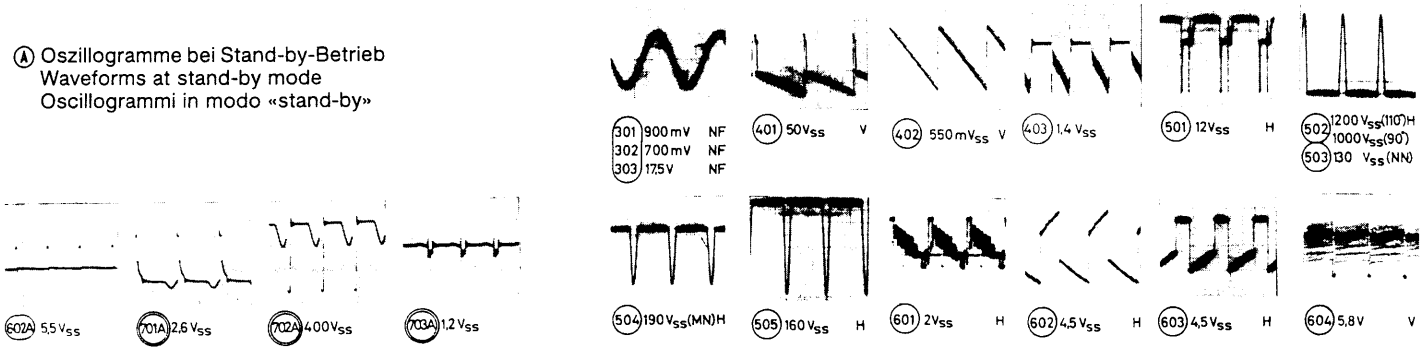
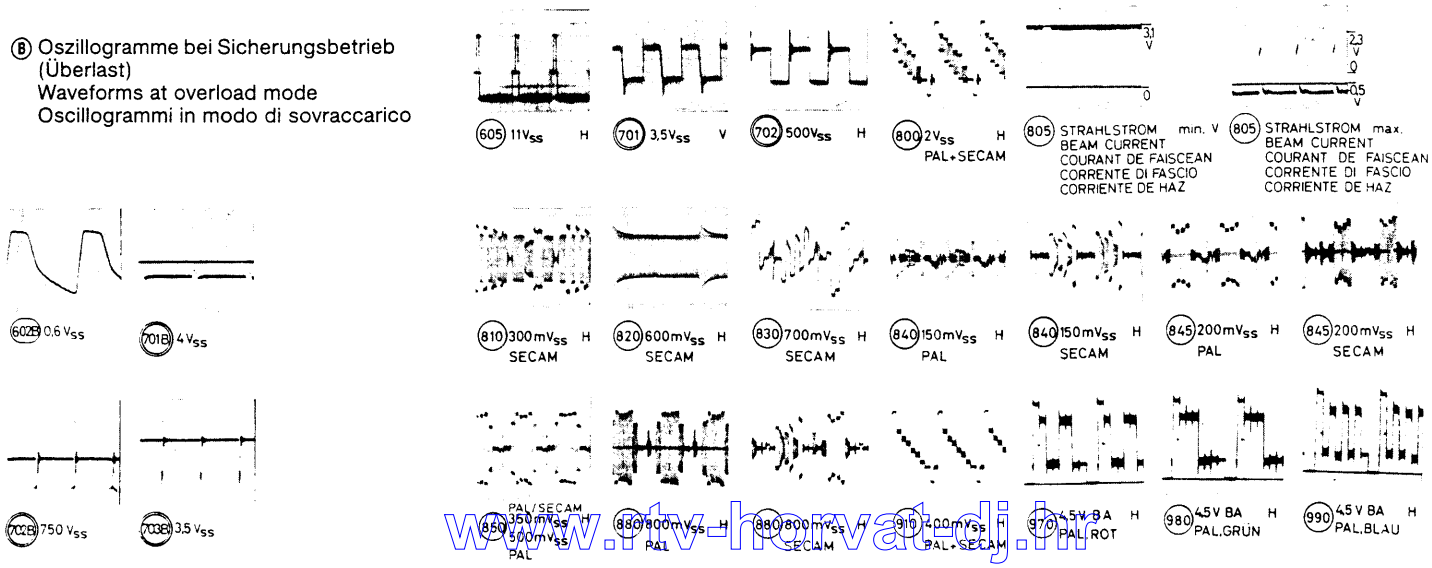
Waveforms at stand-by mode
Oscillogrammi in modo «stand-by»



Ⓑ Oszillogramme bei Sicherungsbetrieb (Überlast)
Waveforms at overload mode
Oscillogrammi in modo di sovraccarico



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