

Trendsetter VLF

Installing 81.5" Plate Guides

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Revision History

Revision	Date	Author	Comments
Draft 1	28 Jul 2004	A.Blignaut/M.Zgrych	
Draft 2	29 Jul 2004	C.Evans	Change to introduction. Added some captions.
A	22 Jan 2004	A.Blignaut/M.Zgrych	Firmware upgrade procedure added.
B	07 Dec 2004	A.Edge	Changes/FIXES to firmware upgrade procedure.

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1. INTRODUCTION

For some customers using MAN or KBA VLF size presses it is necessary to increase the maximum plate size on the Trendsetter VLF to larger than 203 cm (80 in.). See price book for exact options.

This procedure consists of FW and hardware changes to allow the machine to image plates up to 207 cm (81.5 in.). Plate guides are installed on the plate door to assist in positioning the plate on the drum and to ensure that the plate is correctly loaded.

To do this upgrade, top panels on the machine are removed to access the drum. A jig is installed on the drum and is used to align and drill holes in the plate door for the installation of guide pins. Allow 2hrs for installation and testing.

2. TOOLS NEEDED

- Drilling jig
- 5.1 mm drill bit
- Drill



Figure 1: Drill jig and guides

3. INSTALLING THE GUIDES

1. Type `>>table up`
2. Type>> `set head wenable 0`
   Verify that the laser is disabled.
3. Type>> `nvs save head`
4. Remove the top long front panel and rubber shield.



Figure 2: Remove panels from under load table



Figure 3:



Figure 4:



Figure 5:

5. Remove the two rear panels.
6. Protect the drum from the metal chips by using plate slip-sheets.
7. Turn the key switch to the Laser Hazard position.
8. Type:
   ```
   >>table down
   >>pdoor open
   ```
9. Open the hood.
10. Type:
    ```
    >>TEC off
    >>drum idle
    ```
11. Balance the drum by rotating the counter balance 180 degrease to the LEC clamp at the motor side of the device.



Figure 6: Position and balance drum

12. Install the drill jig under LEC clamp close to the LEC pivot block on the motor side. Press the LEC clamps down by hand.
    Note: The edge of the pivot block is the reference for the drill jig position. This position will place the hole of the jig in-line with the correct point on the pdoor (plate door). Make sure the jig is touching the block.



Figure 7: Install drill jig



Figure 8: Drill jig aligned with pivot block

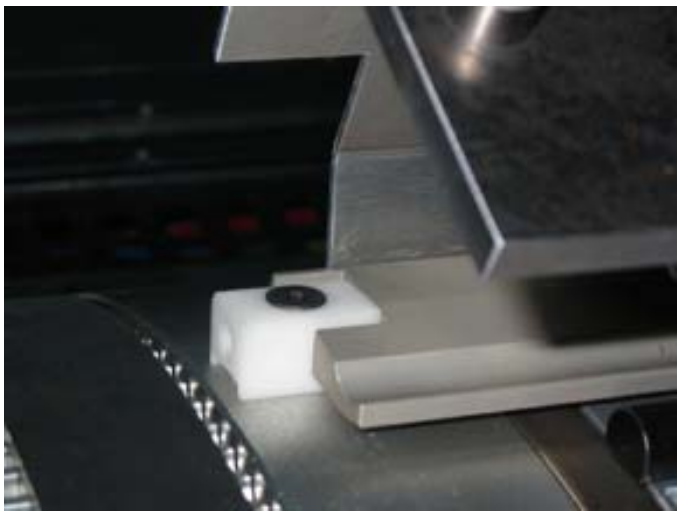


Figure 9: Pivot block alignment detail

13. Gently rotate the drum by hand towards the table edge until the drilling jig touches it.



Figure 10:

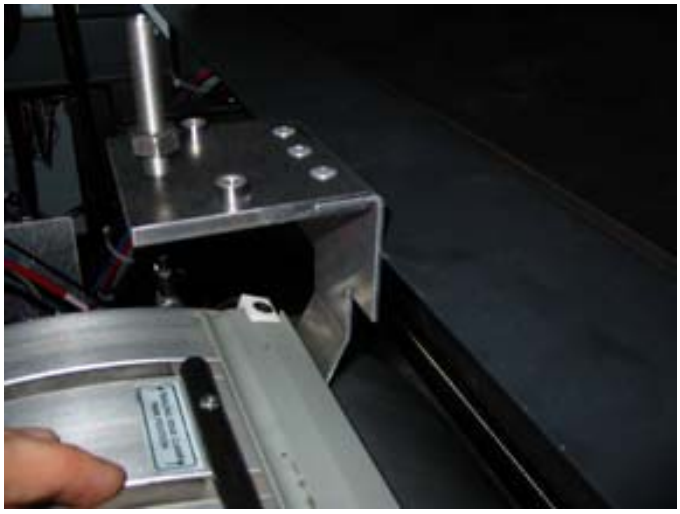


Figure 11:

14. Type `>>drum hold` , to hold the jig in the right position.
15. Close the hood
16. Make sure that the jig jackscrew is in the up position so you will not damage it when plate door is closed in the next step.

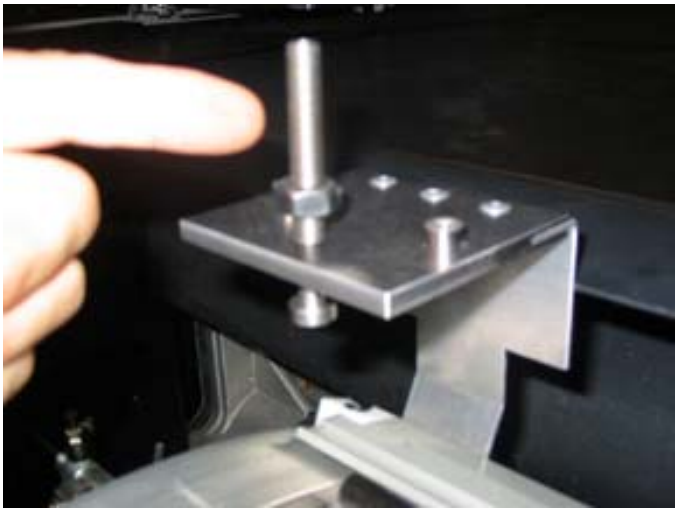


Figure 12:

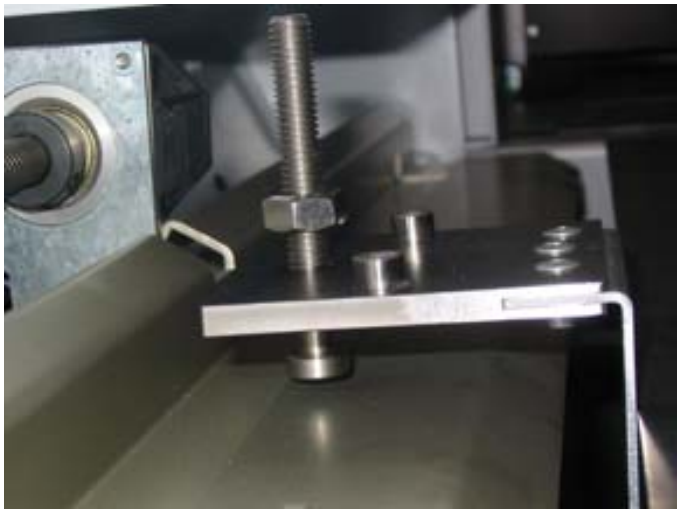


Figure 13:

17. Type `>>pdoor close`

18. Adjust the jig jackscrew and lock nut to pin the plate door securely for drilling.

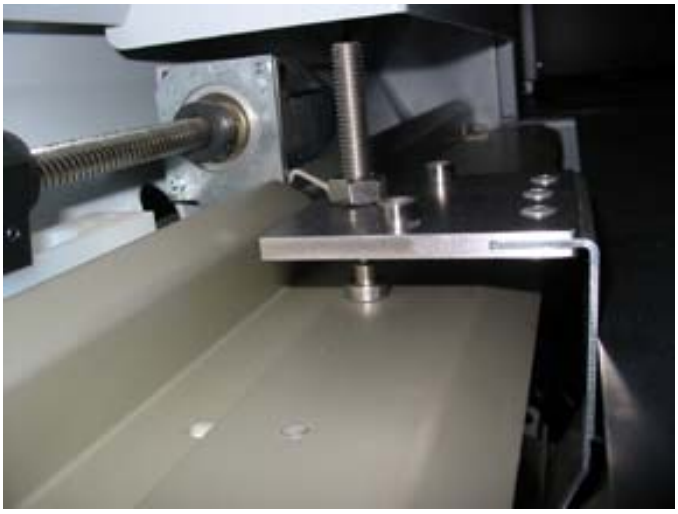


Figure 14:

19. Drill a 5.1 mm hole close to the Motor side only through the plate door. Vacuum up any metal chips.

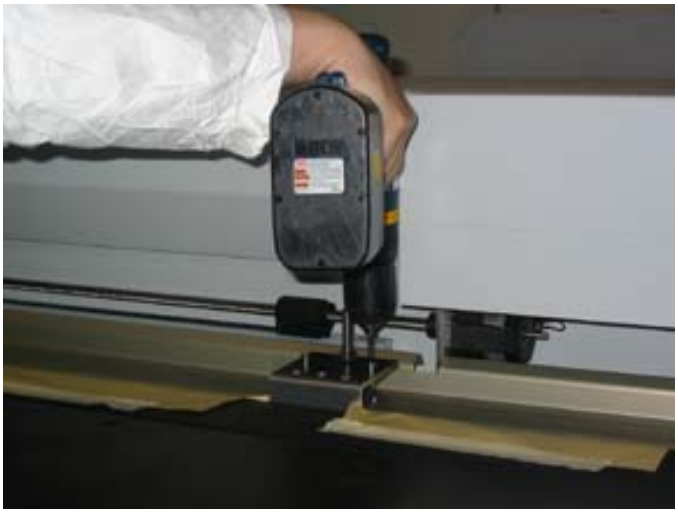


Figure 15:



Figure 16:

20. Loosen the jig jackscrew all the way up so that the jig will not be damaged when the plate door is opened in the next step.



Figure 17:

21. Type `>>pdoor open`
22. Open the hood
23. Type `>>drum idle`

24. Rotate the drum by hand and remove the drilling jig from under the LEC clamp by pressing the clamp down by hand.

25. On the encoder side, install the drill jig under the LEC clamp close to the LEC pivot block. Press the LEC clamps down by hand.
Note: As before, the edge of the pivot block is the reference edge for drilling. Make sure the jig is touching the block.

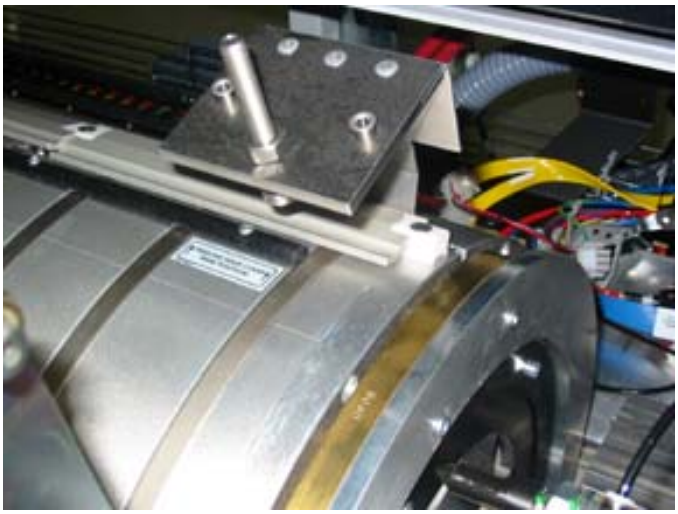


Figure 18

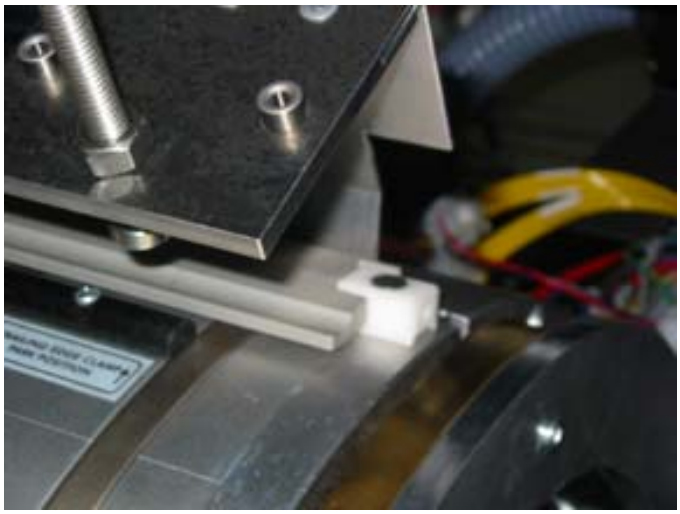


Figure 19:

26. Gently rotate the drum by hand towards the table edge until your drill jig touches it.

27. Type `>>drum hold`

28. Make sure that your jig jackscrew is in the up position so you will not damage it when the plate door is closed in the next step.

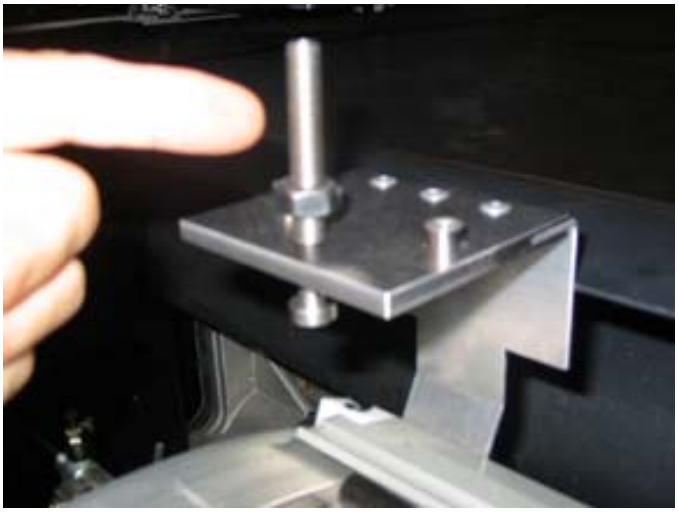


Figure 20:

29. Close the hood
30. Type `>>pdoor close`
31. Tighten the jig jackscrew to the plate door surface so that the drilling jig is held firmly during drilling.
32. Drill a 5.1 mm hole close to the encoder side through the plate door. Vacuum metal chips.



Figure 21:

33. Loosen the jig jackscrew all the way up so that the jig will not be damaged when plate door is opened in the next step.



Figure 22:

34. Type `>>pdoor open`
35. Type `>>drum idle`
36. Open the hood.
37. Remove the drilling jig and clean the machine.
38. Install the 81.5 in. plate guide on each side and tighten the ¼ in. nuts under the plate door.



Figure 23:



Figure 24:

4. FIRMWARE UPGRADE

This feature requires firmware TSVA 2.02 or higher.

1. Backup NVS parameters and perform the firmware upgrade as specified in the firmware release notes.

Machines allowing 81.5 in. plates are a special configuration. You will need the password obtainable from response center or product support specialist. The model codes which permit 81.5 in. plates are listed in the NVS settings table. Note these permit 82 in. plates in all modes, but it is not physically possible to load a plates of more than 81.5 in. and it does not work to load plates of more than 80 in. in autoloader mode.

For example, type `>>config “password” “TV728”` where the quotes must be included, the password is a new password obtainable from R/C or PSS, and TV728 is the model code for a 5082 running V2.8 speed head.

4.1 NVS Settings

Speed factor	Max plate size		Standard swidth	Max dpi	GC/temp comp	Max drum spd (rpm) @ swidth	al maxmsz (mm)	Max ssz	config max msz/ssz	Model Number Code
0.7	4557	Quantum	128	2400	GC/TC	121	1169	1473	46 / 58	TV107
1.0	4557	Quantum	192	2400	GC/TC	121	1169	1473	46 / 58	TV110
2.0	4557	Quantum	224	2400	GC/TC	206	1169	1473	46 / 58	TV120
2.5	4557	Quantum	224	2400	GC/TC	257	1169	1473	46 / 58	TV125
2.8	4557	Quantum	224	2400	GC/TC	292	1169	1473	46 / 58	TV128
0.7	5067	Quantum	128	2400	GC/TC	121	1296	1727	51 / 68	TV207
1.0	5067	Quantum	192	2400	GC/TC	121	1296	1727	51 / 68	TV210
2.0	5067	Quantum	224	2400	GC/TC	206	1296	1727	51 / 68	TV220
2.5	5067	Quantum	224	2400	GC/TC	257	1296	1727	51 / 68	TV225

Speed factor	Max plate size		Standard swidth	Max dpi	GC/temp comp	Max drum spd (rpm) @ swidth	al maxmsz (mm)	Max ssz	config max msz/ssz	Model Number Code
2.8	5067	Quantum	224	2400	GC/TC	292	1296	1727	51 / 68	TV228
0.7	5080	Quantum	128	2400	GC/TC	121	1296	2057	51 / 81	TV307
1.0	5080	Quantum	192	2400	GC/TC	121	1296	2057	51 / 81	TV310
2.0	5080	Quantum	224	2400	GC/TC	206	1296	2057	51 / 81	TV320
2.5	5080	Quantum	224	2400	GC/TC	257	1296	2057	51 / 81	TV325
2.8	5080	Quantum	224	2400	GC/TC	292	1296	2057	51 / 81	TV328
0.7	5467	Quantum	128	2400	GC/TC	106	1398	1727	55 / 68	TV407
1.0	5467	Quantum	192	2400	GC/TC	106	1398	1727	55 / 68	TV410
2.0	5467	Quantum	224	2400	GC/TC	181	1398	1727	55 / 68	TV420
2.5	5467	Quantum	224	2400	GC/TC	229	1398	1727	55 / 68	TV425
2.8	5467	Quantum	224	2400	GC/TC	245	1398	1727	55 / 68	TV428
0.7	5880	Quantum	128	2400	GC/TC	106	1499	2057	59 / 81	TV507
1.0	5880	Quantum	192	2400	GC/TC	106	1499	2057	59 / 81	TV510
2.0	5880	Quantum	224	2400	GC/TC	181	1499	2057	59 / 81	TV520
2.5	5880	Quantum	224	2400	GC/TC	229	1499	2057	59 / 81	TV525
2.8	5880	Quantum	224	2400	GC/TC	260	1499	2057	59 / 81	TV528
0.7	5882	Quantum	128	2400	GC/TC	106	1499	2070	59 / 82	TV607
1.0	5882	Quantum	192	2400	GC/TC	106	1499	2070	59 / 82	TV610
2.0	5882	Quantum	224	2400	GC/TC	181	1499	2070	59 / 82	TV620
2.5	5882	Quantum	224	2400	GC/TC	229	1499	2070	59 / 82	TV625
2.8	5882	Quantum	224	2400	GC/TC	260	1499	2070	59 / 82	TV628
0.7	5082	Quantum	128	2400	GC/TC	106	1296	2070	51 / 82	TV707
1.0	5082	Quantum	192	2400	GC/TC	106	1296	2070	51 / 82	TV710
2.0	5082	Quantum	224	2400	GC/TC	181	1296	2070	51 / 82	TV720
2.5	5082	Quantum	224	2400	GC/TC	229	1296	2070	51 / 82	TV725
2.8	5082	Quantum	224	2400	GC/TC	260	1296	2070	51 / 82	TV728
0.7	4557	E model	128	2400	-	121	1169	1473	46 / 58	TVA07
0.7	5067	E model	128	2400	-	121	1296	1727	51 / 68	TVB07
0.7	5080	E model	128	2400	-	121	1296	2057	51 / 81	TVC07
0.7	5467	E model	128	2400	-	106	1398	1727	55 / 68	TVD07
0.7	5880	E model	128	2400	-	106	1499	2057	59 / 81	TVE07
0.7	5882	E model	128	2400	-	121	1296	2070	51 / 82	TVF07
0.7	5082	E model	128	2400	-	106	1499	2070	59 / 82	TVG07
1.0	4557	E model	192	2400	-	121	1169	1473	46 / 58	TVA10
1.0	5067	E model	192	2400	-	121	1296	1727	51 / 68	TVB10
1.0	5080	E model	192	2400	-	121	1296	2057	51 / 81	TVC10
1.0	5467	E model	192	2400	-	106	1398	1727	55 / 68	TVD10
1.0	5880	E model	192	2400	-	106	1499	2057	59 / 81	TVE10
1.0	5882	E model	192	2400	-	121	1296	2070	51 / 82	TVF10
1.0	5082	E model	192	2400	-	106	1499	2070	59 / 82	TVG10
2.0	4557	E model	224	2400	-	206	1169	1473	46 / 58	TVA20
2.0	5067	E model	224	2400	-	206	1296	1727	51 / 68	TVB20

Speed factor	Max plate size		Standard swidth	Max dpi	GC/temp comp	Max drum spd (rpm) @ swidth	al maxmsz (mm)	Max ssz	config max msz/ssz	Model Number Code
2.0	5080	E model	224	2400	-	206	1296	2057	51 / 81	TVC20
2.0	5467	E model	224	2400	-	181	1398	1727	55 / 81	TVD20
2.0	5880	E model	224	2400	-	181	1499	2057	59 / 81	TVE20
2.0	5882	E model	224	2400	-	206	1296	2070	51 / 82	TVF20
2.0	5082	E model	224	2400	-	181	1499	2070	59 / 82	TVG20
2.5	4557	E model	224	2400	-	257	1169	1473	46 / 58	TVA25
2.5	5067	E model	224	2400	-	257	1296	1727	51 / 68	TVB25
2.5	5080	E model	224	2400	-	257	1296	2057	51 / 81	TVC25
2.5	5467	E model	224	2400	-	229	1398	1727	55 / 81	TVD25
2.5	5880	E model	224	2400	-	229	1499	2057	59 / 81	TVE25
2.5	5882	E model	224	2400	-	257	1296	2070	51 / 82	TVF25
2.5	5082	E model	224	2400	-	229	1499	2070	59 / 82	TVG25
2.8	4557	E model	224	2400	-	292	1169	1473	46 / 58	TVA28
2.8	5067	E model	224	2400	-	292	1296	1727	51 / 68	TVB28
2.8	5080	E model	224	2400	-	292	1296	2057	51 / 81	TVC28
2.8	5467	E model	224	2400	-	260	1398	1727	55 / 81	TVD28
2.8	5880	E model	224	2400	-	260	1499	2057	59 / 81	TVE28
2.8	5882	E model	224	2400	-	292	1296	2070	51 / 82	TVF28
2.8	5082	E model	224	2400	-	260	1499	2070	59 / 82	TVG28
2.0	5880	Postersetter	224	1200	GC/TC	181	1499	2057	59 / 81	TVP20
2.5	5880	Postersetter	224	1200	GC/TC	229	1499	2057	59 / 81	TVP25
2.8	5880	Postersetter	224	1200	GC/TC	260	1499	2057	59 / 81	TVP28
2.0	4557	Postersetter	224	1200	GC/TC	206	1169	1473	46 / 58	TVR20
2.5	4557	Postersetter	224	1200	GC/TC	257	1169	1473	46 / 58	TVR25
2.8	4557	Postersetter	224	1200	GC/TC	292	1169	1473	46 / 58	TVR28
2.0	5067	Postersetter	224	1200	GC/TC	206	1296	1727	51 / 68	TVS20
2.5	5067	Postersetter	224	1200	GC/TC	257	1296	1727	51 / 68	TVS25
2.8	5067	Postersetter	224	1200	GC/TC	292	1296	1727	51 / 68	TVS28
2.0	5467	Postersetter	224	1200	GC/TC	181	1398	1727	55 / 68	TVT20
2.5	5467	Postersetter	224	1200	GC/TC	229	1398	1727	55 / 68	TVT25
2.8	5467	Postersetter	224	1200	GC/TC	260	1398	1727	55 / 68	TVT28
2.0	5080	Postersetter	224	1200	GC/TC	206	1296	2057	51 / 81	TVQ20
2.5	5080	Postersetter	224	1200	GC/TC	257	1296	2057	51 / 81	TVQ25
2.8	5080	Postersetter	224	1200	GC/TC	292	1296	2057	51 / 81	TVQ28
2.0	5882	Postersetter	224	1200	GC/TC	206	1296	1727	51 / 82	TVU20
2.5	5882	Postersetter	224	1200	GC/TC	257	1296	1727	51 / 82	TVU25
2.8	5882	Postersetter	224	1200	GC/TC	292	1296	1727	51 / 82	TVU28
2.0	5082	Postersetter	224	1200	GC/TC	181	1499	2057	59 / 82	TVV20
2.5	5082	Postersetter	224	1200	GC/TC	229	1499	2057	59 / 82	TVV25
2.8	5082	Postersetter	224	1200	GC/TC	260	1499	2057	59 / 82	TVV28