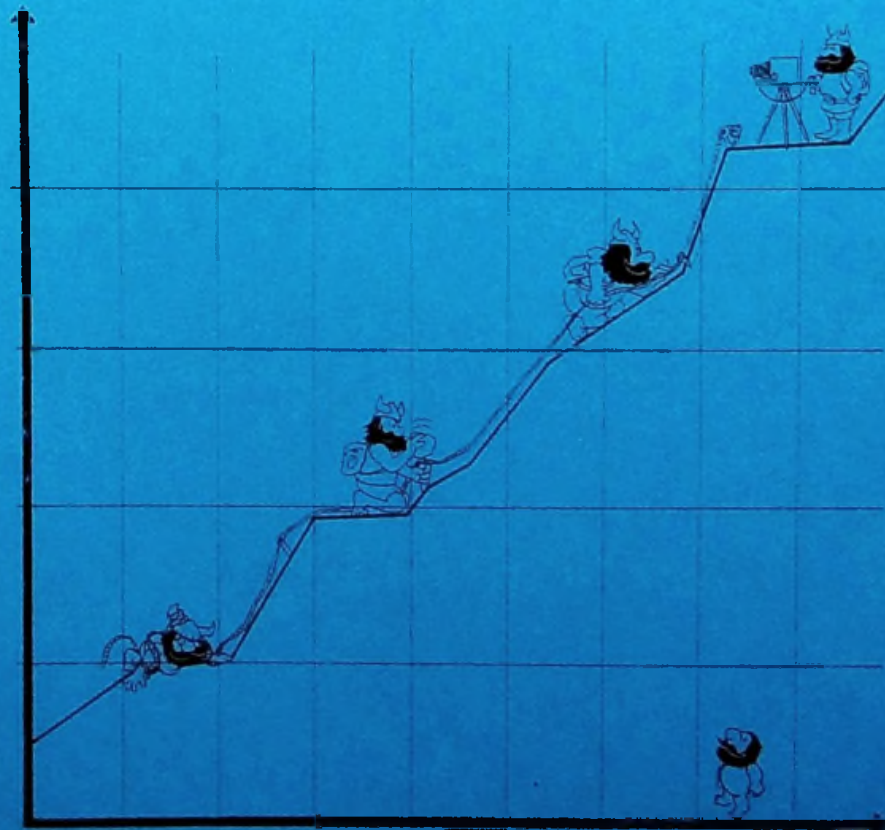


# TANDBERG DATA

volume 2 no. 3

october, 1979

- \* CHANGES IN OUR ORGANIZATION
- \* NEW TOS 21 RELEASE
- \* BETTER AND QUICKER SERVICE
- \* TECHNICAL HINTS
- \* TANDBERG DATA SOFTWARE SCENE
- \* NEW PUBLICATIONS FROM DIG



# newsletter



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## Changes in our organization

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### MARKETING DEPARTMENT

Tandberg Data's Assistant Managing Director, Hans Lødrup, has been appointed responsible for our marketing functions. This also includes co-ordinating our customer service and sales functions.

Hans Lødrup, who has been on loan from Siemens A/S since March this year, is now permanently employed by TANDBERG DATA A/S. The appointment is on Tandberg Data's request and implies a reinforcement of our organization.

Mr. Odd Heldre continues as sales manager and Mr. Rolf Holt-Jacobsen continues as responsible for the Customer Service Department.

To strengthen the Marketing Department in the product/technological field, Mr. Arne Solesvik is transferred from the R & D Department to be responsible for product planning.

### PRODUCT ENGINEERING DEPARTMENT

Mr. Tom Johannessen is appointed new leader for the Product Engineering Department. He succeeds Mr. Svein Frodahl, who takes on the responsibility of a large project in the R & D Department.

## Newsletter deadlines

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We strongly encourage our readers to make use of the Newsletter to spread information which might be of interest to others.

Please notice, however, that the next deadline is:

**1st december**

# ew TOS21 release

new release of TOS 21 version 1.7 is now available.

## Documentation:

Publ.no. 5124 TDV 2114 TOS 21 Ver. 1.7 System Description

The changes are further described on the following pages.

WARNING: DUE TO THE IMPROVEMENT OF 54 K RAM HANDLING IN SEVERAL UTILITIES UNDER TOS21, V.1.7, THESE UTILITIES SHOULD NOT BE ATTEMPTED TO RUN UNDER TOS21 VERSIONS OLDER THAN 1.7.

The main modifications as compared to versions 1.6 and 1.61 are:

### TOS 21

- A number of known errors in TOS21 have been corrected.
- Some improvements are made in TOS21:
  - \* TOS21 will find start of RAM (lower boundary) and store the address into RAM MEM START at OFDFCH.
  - \* TOS21 is updated to handle 54 K RAM.
  - \* OPEN EXTEND is introduced in TOS21 for system programming.

#### System call:

```
;  
;  
;      BUILD FCB TYPE INPUT  
;  
XRA   A           ; INPUT TYPE  
LXI   H,NAME  
CALL  PHYS  
RC  
SHLD  FCBPON  
;  
;  
;      OPEN IT FOR OUTPUT EXTEND  
;  
MVI   A,4         ; OUTPUT EXTEND TYPE  
CALL  OPEN  
RC
```

- \* TOS21 has been modified to abort if a system error occurs during execution of a JOB file (EXEC command).

The operation has been achieved by means of an extended use of the SYSTEM SWITCH at location 272CH. If set to "C" (continue), TOS21 ignores the error and will proceed with the next job.

Default function will be abortion.

To set or clear the SYSTEM SWITCH, the utility SYS may be used. See SYS improvement on the next page due to this function.

## UTILITIES

- A number of known errors have been corrected.
- Some improvements are made in several utilities:

- \* DGEN
  - Data is buffered.
  - Attributes are copied.

NOTE THAT DGEN, V.1.7 AND LATER VERSIONS SHOULD NOT RUN UNDER TOS21 VERSIONS OLDER THAN 1.7.

- \* FORMAT
  - Data is buffered.
  - Possible to change volume name only, by means of an L-switch.

ex.: FORMAT\$:F1:NAME.NEW,L

NOTE THAT FORMAT, V.1.7 AND LATER VERSIONS SHOULD NOT RUN UNDER TOS21 VERSIONS OLDER THAN 1.7.

- \* RASM
  - Modified to handle 54 K RAM.
  - Error list on AL is more compressed.

NOTE THAT RASM, V.2.4 AND LATER VERSIONS SHOULD NOT RUN UNDER TOS21 VERSIONS OLDER THAN 1.7.

- \* LINK
  - Modified to handle 54 K RAM.

NOTE THAT LINK, V.1.2 AND LATER VERSIONS SHOULD NOT RUN UNDER TOS21 VERSIONS OLDER THAN 1.7.

- \* XREF
  - Modified to handle 54 K RAM.

NOTE THAT XREF, V.1.6 AND LATER VERSIONS SHOULD NOT RUN UNDER TOS21 VERSIONS OLDER THAN 1.7.

- \* MOVE
  - Modified to handle 54 K RAM.
  - Output on :CO: to screen (to handle PAGE MODE).
  - Close input after single copy.

NOTE THAT MOVE, V.1.7 AND LATER VERSIONS SHOULD NOT RUN UNDER TOS21 VERSIONS OLDER THAN 1.7.

- \* INIT
  - Position 80, track 0, sector 7 has been changed from E3 to E6.

- \* DCOPY
  - Modified to handle 54 K RAM.
  - I as reply causes only the first 75 tracks to be copied.

NOTE THAT DCOPY, V.1.7 AND LATER VERSIONS SHOULD NOT RUN UNDER TOS21 VERSIONS OLDER THAN 1.7.

- \* SYS
  - Due to the JOB ABORT function made in TOS21, SYS has been modified to generalize the parameter entry. Any letter from A-Z (or a-z, which are converted to A-Z), may be entered as a parameter into the SYSTEM SWITCH (located at 272CH).

To enter a character: SYS\$<char>  
To clear the switch: SYS\$

Note that the SYSTEM SWITCH only can hold one function at a time.

At present, two functions in the system are based on the SYSTEM SWITCH:

SYSSS - means that files which are protected may be deleted or renamed. It also means that a protected file may be opened for OUTPUT EXTEND.

SYSSC - Ignores system errors during execution of a JOB FILE.

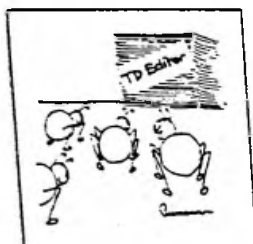
\* ASM - Modified to handle 54 K RAM.

NOTE THAT ASM, V.1.7 AND LATER VERSIONS SHOULD NOT RUN UNDER TOS21 VERSIONS OLDER THAN 1.7.

\* RESCUE - Modified to handle IBM files.

Entry: RESCUE\$:In:IBMPFILE

\* EDIT - A RESCUE function is implemented.



'Looks Like a Good Program. Climo in, Everybody.'

For some reason or another the control may be handed over to the monitor during an editing session. Results, the contents of memory is lost. If an output file was assigned, the contents of memory can be saved by giving the monitor command:

.G8403

- Only few minor errors are reported and corrected.

- Due to the fact that TOS 1.7 is increased, the maximum number of full (80 character long) lines will be 198.

Bjørn Thomsen

## ECN status list

---

TDC 3000: 3001 - 3029

TDV 2100: 2001 - 2132

TDM 1000: 1 - 15 & 1001 -

TDF 4000: 4001 - 4002

# BETTER and QUICKER SERVICE

## Correct information reduces service handling time

### PRODUCTS/SUBUNITS SENT TO US FOR REPAIR

Due to new law passed by Norwegian customs, we need to document when these products/subunits were exported from Norway.

This has to be done before the products/subunits are released by customs.

Therefore we request the following.

Please inform us by twx the invoice no. referring to the shipment in question.

This will help us in our efforts to keep total handling time at a minimum.

Kenneth Arstad

## Technical hints

### REDUCING PROGRAM LOAD TIME UNDER XMON/D LEVEL 5

In XMON/D, level 5, certain infrequently occurring errors in the loading routine were corrected. This has led to significantly higher load time for some programs, including TOS itself.

To reduce this time as much as possible, diskettes should be initialized by

INIT\$:F1:

prior to DCOPY.

#### Example:

- From a normal factory initialized diskette (equivalent to initialization with INIT\$:I1:), TOS will use 14 seconds to load.
- After DCOPY on a diskette initialized as specified above, it will use only 4 seconds.

Bjørn Myhrhaug



# Tandberg Data Software Scene

A Random File Manager (RFM) package is now available from the Sales Department.

The RFM package gives access to direct and indexed files on a Tandberg formatted diskette.

Both types of files are held on the diskette in a format compatible with the Tandberg diskette directory and diskette map (both of which are specified in the Tandberg Data TOS21 User's Guide).

Any additional information required for each file is held in a file header block withing the file. These files retain a format which the operating system can handle at a file level.

Both types of files may

- extend over more than one diskette,
- exist in more than one part on the same diskette, or
- as a combination of the two.

In these cases the file is known as a multi-part file and all parts must be present for correct usage of the file.

The package is assumed to be incorporated in a user system.

Three utilities are delivered together with the package:

- \* CREATE            This utility is required to create a new random file. A random file must be created before it can be used.
- \* REORG            This utility is required to re-organize an indexed file after creation of several new records, to overcome the resulting degradation of access time.
- \* RFSORT           This utility may be used to sort one random file into another.

A User's Guide is prepared for implementation of a system using the Random File Manager.

The RFM package is delivered on a diskette, ordering no. 961038.

The RFM User's Guide carries the publication number 5104.



## CHANGES BETWEEN TANDBERG COMMERCIAL BASIC VERSION 1.4/1.4a

Only few minor errors are reported and corrected.

The versions 1.41 and 1.4a are identical, except that the

- \* 1.41 runs on both machines of size 48K and 54K. However, only 48K is utilized.
- \* 1.4a will only run on a machine of size 54K.

Terje Bøen

## Software updating

---

AMENDMENT TO TOS21 USER'S GUIDE, VERSION 1.5 (publ.no. 5001)

The following command should be inserted in the description of

PROM (page 75):

C - CLEAR MEMORY AREA

Cstart address, stop address

will fill memory with zeroes from start address to stop address.

Also, insert the following in Appendix A (page 107):

14 File protected

⋮

⋮

26 Improper Parameter

⋮

⋮

5E Output file not on diskette

# New publications from DIG

The following list shows new or revised publications that have been printed since the previous issue of Newsletter.

They can all be obtained from our Ordering Department.



PUBL. NO.	REV. NO.	TITLE	PART NUMBER	DATE/ LOCATION	CODE
N5083	1	TDC 3000 PRODUCT SPECIFICATIONS	--	SALES DPT	*
N5098	1	TDC 3000 REFERENCE MANUAL	--	SALES DPT	*
N5084	1	TDC 3005 PRODUCT SPECIFICATIONS	--	SALES DPT	*
N5106	0	TDV 2100 COBOL VER.2.2 RELEASE DESCRIPTION	--	SALES DPT	*
P5070	1	TDV 2100 CPU	374957	060779	*
N5104	0	TDV 2100 RANDOM FILE MANAGER USER'S GUIDE	--	SALES DPT	*
P5120	0	TDV 2100 TD RAM	387420	220879	*
N5109	0	TDV 2100 TOS 21 VER.1.6 REFERENCE CARD	--	SALES DPT	*
N5105	1	TDV 2100 TOS 21 VER.1.6 SYSTEM DESCR. + APP.	--	SALES DPT	*
N5124	0	TDV 2100 TOS 21 VER.1.7 SYSTEM DESCRIPTION	--	SALES DPT	*
P5056	1	TDV 2114 DESCR. OF TEST PROGRAMS (960680)	--	SERVICE	*
P5069	1	TDV 2114 DISPLAY LOGIC	374095	060779	*
-4995	1	TDV 2114 DIVIDING SHEETS FOR SERVICE MANUAL	373463	060779	*
P5116	0	TDV 2114 ILLUSTRATED PARTS LIST	385423	170979	*
-4991	1	TDV 2115/16 DIVIDING SHEETS FOR SERV. MAN.	370539	060779	*

# TANDBERG DATA

Updated 3rd Oct. 1979

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SWITZERLAND		Stolz AG Industrievertretungen 8968 MUTSCHELLEN	Telephone: (41-57) 54655 Telex: 935/54070	Mr. Werner Stolz Mr. Anton Wegdam Mr. Bachman					

# Have you checked your stock of documentation lately?

## THE FOLLOWING CODES ARE USED:

- \* = available through our ordering department
- 1 = in preparation
- 2 = being printed first time
- 3 = being reprinted
- K = only delivered as part of a kit
- N = non-restricted
- P = product related; only available with purchase of associated hardware

PUBL. NO.	REV. NO.	TITLE	PART NUMBER	DATE/ LOCATION	CODE
N5041	1	FORMULAR SOFTWARE ERROR REPORT	374051	121277	*
P1566	0	TDC 3000 960055 FORMATTER	--	SERVICE	*
P1552	0	TDC 3000 960056 PAR. I/O CONTR.	--	SERVICE	*
K5128	0	TDC 3000 EMC MODIF. KIT, MOUNTING INSTR.	--	BJØRNSEN	*
P1455	0	TDC 3000 OPERATING INSTRUCTIONS	359534	110579	*
N5083	1	TDC 3000 PRODUCT SPECIFICATIONS	--	SALES DPT	*
K5119	1	TDC 3000 REAR COVER KIT, MOUNTING INSTR.	--	BJØRNSEN	*
N5098	1	TDC 3000 REFERENCE MANUAL	--	SALES DPT	*
P1381	0	TDC 3000 SERVICE & OPERATING MANUAL	--	SERVICE	*1
P5093	1	TDC 3000 USED WITH FLUKE 2240A DATA LOGGER	960980	SERVICE	*
P5027	0	TDC 3000/3011 DEMO CARTRIDGE USER'S MANUAL	--	MARIENB	*
N5084	1	TDC 3005 PRODUCT SPECIFICATIONS	--	SALES DPT	*
P5065	0	TDC 3005 SUPP.TO 1381 TDC 3000 SERV.OP.MAN	--	SERVICE	*
P5039	1	TDC 3010 USER & SERVICE MANUAL (ALPHA-LSI)	--	SERVICE	*
P5023	0	TDC 3011 DESCR. DISK DUMP/RESTORE PROGR.(HP)	--	SALES DPT	*
N5031	0	TDC 3011 DESCR. FOR BCS DRIVER VER.3 (HP)	--	SALES DPT	*
P5020	0	TDC 3011 SPEC BIN.LOADER/DUMP HP2100(not21MX)	--	SALES DPT	*
P5019	0	TDC 3011 SPECS. FOR BIN.LOADER/DUMP (HP21MX)	--	SALES DPT	*
P5040	0	TDC 3011 USER & SERVICE MANUAL (HP2100/21MX)	374719	010278	*
N5076	0	TDC 3011 USER MAN. DOS OPERATING SYSTEM (HP)	--	SALES DPT	*
P5024	0	TDC 3011 USER MAN. SIO DRIVER (HP)	--	SALES DPT	*
P5018	0	TDC 3011 USER MAN. OPER/HP-RTE FAM.OF OPSYS	--	SALES DPT	*
P5017	0	TDC 3011 USER MAN.TEST/MAINT(2100/21MX)+ECN	366968	030677	*1
N5049	1	TDC 3013 SPECIFICATIONS (PDP-11)	--	SALES DPT	*
P5028	1	TDC 3013 USER & SERVICE MANUAL (PDP-11)	360971A	010478	*
P5025	0	TDC 3013 USER MAN. RT-11 DRIVER (PDP-11)	--	SALES DPT	*
P5047	0	TDC 3013 USER MAN. TEST/MAINT.PROG.(PDP-11)	367198	120178	*
P5048	1	TDC 3013 USER MAN.DISKDUMP/REST.PROG.(PDP-11)	--	SALES DPT	*
P5044	1	TDC 3025 SERV. MAN.COMM.INTERF.V24 Ver.C	--	SERVICE	*
N5060	0	TDC 3025 SPECS. COMMUNICATION INTERFACE V24	377012	120179	*
N5085	0	TDC 3050 FORMATTER WITH PARALLEL I/O CONTR.	--	SALES DPT	*
P5042	0	TDC 3100 SERVICE MANUAL	--	SERVICE	*
K5012	0	TDF 4050 OPERAT.INSTR.SELF TEST (960768)	--	SERVICE	*
P5037	4	TDF 4050 REFERENCE MANUAL	--	SALES DPT	*
P5050	0	TDF 4050 SERVICE AND OPERATING MANUAL	--	SERVICE	*
N5062	0	TDS 8021/24 USER'S GUIDE HASP/JES2	--	SALES DPT	*
N5008	0	TDS 8031 OPERATOR'S GUIDE (IBM 3270 EMUL.)	--	SALES DPT	*
P5009	0	TDS 8031 TECHNICAL OVERVIEW(IBM 3270 EMUL.)	--	SALES DPT	*



PUBL. NO.	REV. NO.	TITLE	PART NUMBER	DATE/ LOCATION	CODE
N1513	0	TDV 2100 BINDER, yellow	364850	201178	*
N5052	0	TDV 2100 CABLE FASTENING KIT	371228	080278	*
N5089	0	TDV 2100 CLUSTER INTERFACE HANDLER	--	SALES DPT	*
N5106	0	TDV 2100 COBOL VER. 2.2 RELEASE DESCRIPTION	--	SALES DPT	*
P5070	1	TDV 2100 CPU	374957	060779	*
P5067	1	TDV 2100 DEFLECTION & VIDEO ELECTRONICS	370733	270679	*1
P5068	0	TDV 2100 KEYBOARD	372914	040579	*
P5121	0	TDV 2100 POWER SUPPLY MK III	389101	050979	*
P5002	1	TDV 2100 PROM	375518	160579	*
N5104	0	TDV 2100 RANDOM FILE MANAGER USER'S GUIDE	--	SALES DPT	*
N5101	0	TDV 2100 RELOCATABLE ASSEMBLER & LINKER +APP.	--	SALES DPT	*
N5003	0	TDV 2100 SPECIFICATION FOR BUFFERED EDITOR	--	SALES DPT	*
N5016	0	TDV 2100 SPECS. FOR XMON/P FORM HANDLER	--	SALES DPT	*
N5013	0	TDV 2100 SPECS. FOR XMON/SV REV.LEVEL 1	--	SALES DPT	*
N5014	0	TDV 2100 SPECS. XMON/S & XMON/SD REV.LEV.1	--	SALES DPT	*
N5061	0	TDV 2100 SPECS. TEXT HANDLER	--	SALES DPT	*
N5045	0	TDV 2100 SYNCHRONOUS COMMUNICATION DRIVER	--	SALES DPT	*
N5053	0	TDV 2100 TCGS - T.CHARACTER GEN. SYST.	--	SALES DPT	*
P5120	0	TDV 2100 TD RAM	387420	220879	*
P5082	0	TDV 2100 TECHNICAL UPDATING	370374	050379	*
N5001	0	TDV 2100 TOS 21 VER. 1.5 USER'S GUIDE	--	SALES DPT	*
N5109	0	TDV 2100 TOS 21 VER. 1.6 REFERENCE CARD	--	SALES DPT	*
N5105	1	TDV 2100 TOS 21 VER. 1.6 SYSTEM DESCR.+APP.	--	SALES DPT	*
N5124	0	TDV 2100 TOS 21 VER. 1.7 SYSTEM DESCRIPTION	--	SALES DPT	*
N5099	0	TDV 2114 CABLE DESCRIPTION	--	SALES DPT	*
P1549	0	TDV 2114 CARTRIDGE CONTROLLER	366006	201178	*1
P5079	0	TDV 2114 CLUSTER INTERFACE	372759	090779	*1
N5095	0	TDV 2114 COBOL LANGUAGE MANUAL	--	SALES DPT	*
N5096	0	TDV 2114 COBOL REFERENCE CARD	--	SALES DPT	*
N5091	0	TDV 2114 COMMERCIAL BASIC REFERENCE CARD	--	SALES DPT	*
N5090	0	TDV 2114 COMMERCIAL BASIC USER MANUAL	--	SALES DPT	*
P5029	0	TDV 2114 CONNECT. EXT.DISK/CARTR DRIVES	369728	160179	*
P5126	0	TDV 2114 CONNECT. SHIELDED FLAT CABLE	--	KONESTABU	*
P5056	1	TDV 2114 DESCR. OF TEST PROGRAMS (960680)	--	SERVICE	*
P1426	0	TDV 2114 DISKETTE CONTROLLER	362845	201178	*
P5069	1	TDV 2114 DISPLAY LOGIC	374095	060779	*
N5026	1	TDV 2114 FORM HANDLER VER. 1.2 (see 5016)	--	SALES DPT	*
P5057	0	TDV 2114 HORIZONTAL MOUNTING OF DISK. DRIVE	--	SERVICE	*
P5116	0	TDV 2114 ILLUSTRATED PARTS LIST	385423	170979	*
P5036	0	TDV 2114 INITIAL SETTING UP	367738	TØTR	3
P5035	1	TDV 2114 INSTALLATION	366330	BRA	2
P5123	0	TDV 2114 LCG BOARD (1 schematic)	389173	140879	*
P5077	0	TDV 2114 LOCATION & INTERCONNECTION	374792	060779	*
N5033	0	TDV 2114 OPERATING INSTRUCTIONS (PRELIM.)	368399	220977	*1
N5058	0	TDV 2114 RELEASE DESCR. COBOL 960811.000 (App.to 5095)	960705	SALES DPT	*
P4997	0	TDV 2114 SERV. & OPERATING MANUAL (3 books)	960705	SERVICE	*
P5080	1	TDV 2114 SYNCHRONOUS INTERFACE	373190	110579	*
P5087	0	TDV 2114 SYSTEM DESCRIPTION	373111	190979	*1
N5015	0	TDV 2114 USER DOCUMENTATION FOR SORT	--	SALES DPT	*
P5092	0	TDV 2115 ADAPT.CABLE TDV 2000 COMP.TDV 2115	--	SERVICE	*
P5055	0	TDV 2115 DISPLAY CONTROLLER	371372	060779	*
P5114	0	TDV 2115C USER'S GUIDE (PRELIMINARY)	375827	280579	*1
N5100	0	TDV 2115/16 CABLE DESCRIPTION	--	SALES DPT	*
P5064	0	TDV 2115/16 LOC. AND INTERCONN. (diagrams)	371085	150879	*
N5032	0	TDV 2115/16 PRELIM.GUIDE,ref.5114,5118 etc.	365741	WM	31
P4998	0	TDV 2115/16 SERVICE & OPERATING MANUAL	960763	SERVICE	*

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**Editorial staff**  
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