

BS067

Large 6624

Fuzyer

TA TRIUMPH-ADLER

TECHNICAL DESCRIPTION

SE 1035 Microdisc (MD)

SE 1035 Superdisc (SD)

Preface

The SE 1035 SD is the same as a SE 1035 with mini diskette drive. The hardware and software for the drive control, situated in the supplementary module, is exactly the same as in the already known model SE 1041. The difference to the SE 1041 supplementary module is in the drive itself. This is a 5 1/4 inch Slime-Line drive of the Shugart company, which is treated in detail in this description.

The SE 1035 SD has the same features of efficiency as the SE 1041 with catenating and format control. The supplementary module of the SE 1035 MD is exactly the same in function as the one of the SE 1040 MD.

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1. General

1.1 Technical Specification

Features of Equipment and Efficiency

Printer: see repair instruction SE 1010

Operating program: 56 KB

Data memory: 12 KB

Allocation of the memory parity of the data memory

Scratchpad (auxiliary cells): 3.5 KB

Effectively usable text memory: 8.5 KB

Text memory is subdivided in

Work memory: 4 KB

Phrase memory: 4.5 KB

The phrase memory is splitable into 98 single phrases.

External memory module:

Superdisc

Diskette capacity: (Formatted $\hat{=}$ 40 tracks/16 sectors)

per diskette: 327.680 Bytes for the user are available max.

per track: 4.096 Bytes 300 KB

per sector: 256 Bytes

Micro disk

Diskette capacity:

per diskette: 8.192 Bytes

per page: 4.096 Bytes

Number of tracks: 1 (spirally)

2. Dismounting and Mounting

2.1 Superdisc - supplementary module
analogous 1041 - supplementary module

2.2 Microdisc - supplementary module
analogous 1040 MD - supplementary module

3. Mini-Floppy-Disk-Unit

3.1 Features of efficiency

Diskette capacity:

Unformatted

per diskette: 500.000 Bytes
per page: 250.000 Bytes
per track: 6.250 Bytes

Formatted (16 sectors per track)

per diskette:	327.680 Bytes	max. 300 KB per diskette are available for the user
per page:	163.840 Bytes	
per track:	4.096 Bytes	
per sector:	256 Bytes	

Recording rate: 250 kbits/sec.

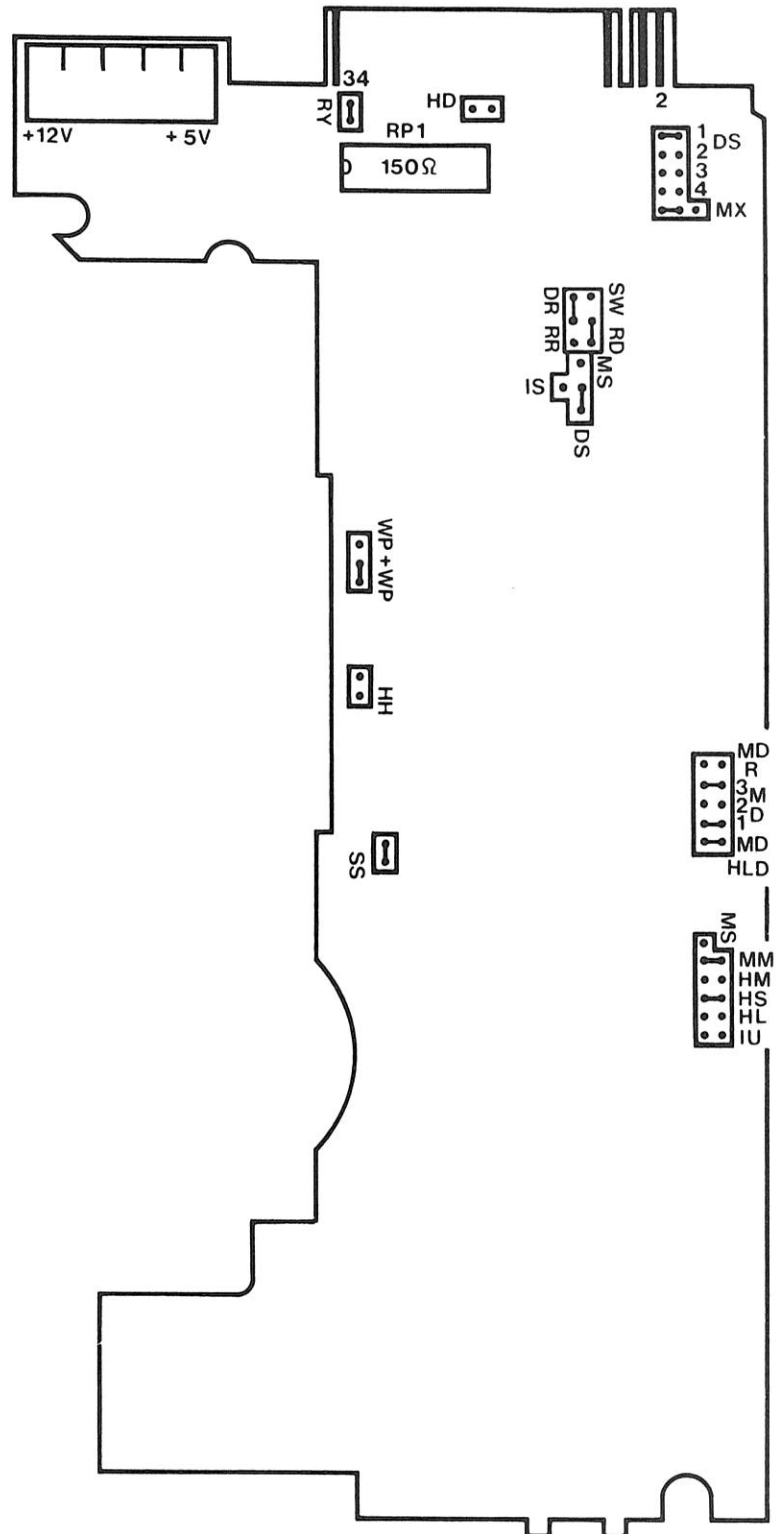
3.1.2 Characteristics of the function

Rotation velocity: 300 U/min
Track density: 48 tpi
Recording procedure: MFM

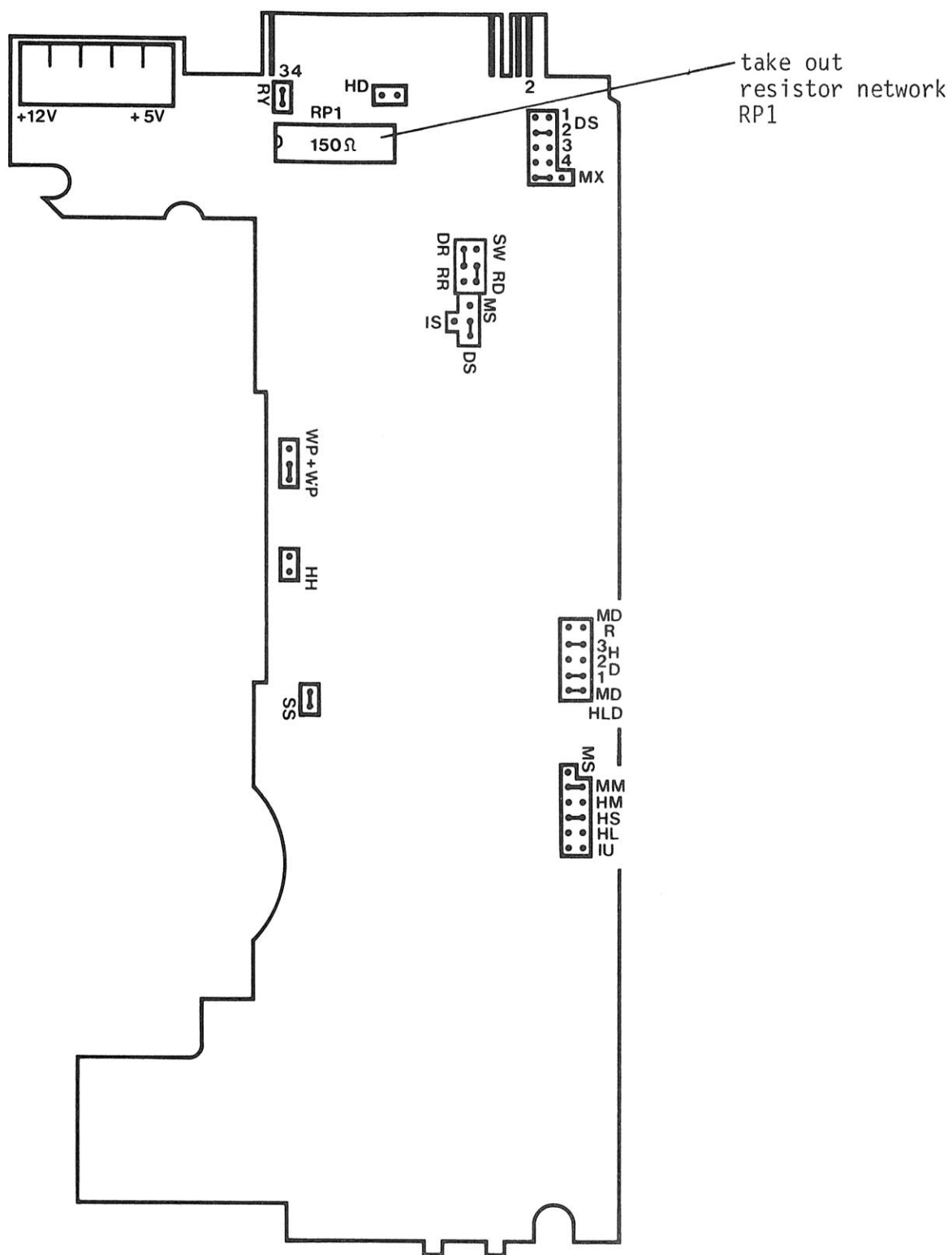
Diskette recommendation: TA mini diskette

3.1.3 Physical characteristics

Operation limit values	Operation	Transport	Storing
Environmental temperature	50° - 115°F (10° - 46.1°C)	-40° - 144°F (-40° - 62.2°C)	-8° - 117°F (-22.2° - 47.2°C)
Relative air moisture	20 - 80 %	1 - 95 %	1 - 95 %
Required supplying voltage	+12V \pm 10% / 1.2A (max) 0.6A (typ.)		
hum voltage	max. 100 mV		
Required supplying voltage	+5V \pm 5% / 0.9A (max) 0.6A (typ.)		
Efficiency capacity:	9.6 W when operating		
	3.6 W in "stand by" state		
Measures:	5.75 inches (146.1mm)		
	height 1.62 inches (41.1mm)		
	depth 7.96 inches (202mm)		
	weight 1.5 kg		
	hum voltage max. 50mV		



3.2.2 Drive 2



4. Micro Program Equipment

Designation	PCB	Chip Position
EDAF 01	EDAA 12	24
EDAF 02	EDAA 12	25
EDAF 03	EDAA 12	26
EDAF 04	EDAA 12	27
EDAF 05	EDAD 16	02
EDAF 06	EDAD 16	04
EDAF 07 LV-DE	EDAD 16	03
EDKF 03 MM boot loader only for SD	EDKA 04	11
EDKF 04 system diskette for SD		
EDKF 09 μ P for MD	EDKA 06	04

5. Service program

The service program of the Superdisc and Microdisc Machine corresponds to a normal SE 1035.

The "ROM-Test", however, must be left out for program-technical reasons.

6. Hints for the module exchange

- the Slime-line drive of the SE 1035 SD must be sent completely without front cover and cludgel (incl. cross head screw) to the central module exchange.
- the logic and interface boards of both machines are dispatched completely without program components.
- the controller boards for the micro disc drive as well as for the super disc drive are dispatched with program components.