HDD-SAM is a combination unit consisting of a 640 Kbyte diskette unit (made by Toshiba) and a 40 Mbyte 3.5" hard disk unit (made by Rodime). The HDD-SAM is intended for use together with a SAM board for data and program storage.

Mounting
On installation the SAM and HDD are interconnected via 50-pole and 34-pole ribbon cables. The units are then folded together before they are inserted into the rack as a complete unit (see Fig. 2). The SAM unit ribbon cable connections are located on the serial board. Note that the SAM board can be equipped with two serial boards. The ribbon cable must always be connected to the lowermost serial board on the SAM unit. The HDD-SAM is delivered with power supply connections (F-connector). The enclosed terminal is mounted in the X2 position (see Fig. 3).

Power supply
On starting the HDD-SAM has a maximum current consumption of 2.5A on the +12V supply, which is more than the power supply units PSB and PSBDE can handle. The recommended power supply unit is a PS 24-5.

SAM board program
The diskettes supplied with the SAM board must be copied on to the hard disk at the following addresses:

"SAM kernel" Screen 101000

"SAM System" Screen 102000

Terminating resistors
The SAM board serial boards are equipped with terminating resistors, RN8-RN10, for termination of the SCSI bus. On installation of an HDD-SAM the terminating resistors should remain connected on the first and last units on the bus, and the others disconnected, see Figs. 4 and 5.

Identity settings
The identity of an HDD-SAM is set by means of jumpers which are positioned to provide the required identity. These jumpers are located at the rear of the hard disk unit, see Fig. 6. On delivery the identity is set to 0.

Formatting the hard disk unit
The hard disk unit is not formatted on delivery, and this must be done before it can be used. Use the following command to format a unit with identity 0:

0 FORMAT-WINCHESTER <RETURN>

More details are given in the "SAM Technical description".

NOTE! To achieve protection against electrostatic and electromagnetic shocks, the HDD-unit should be placed in the same rack as the SAM-board.
Technical data

Associated system
SAM

Memory capacity
Diskette 640 Kbyte (formatted)
Hard disk 40 Mbyte (formatted)

Power supplies
+12, +5 and 0V DC

Current consumption
Normal operation 1.0A (+5V), 0.5A (+12V)
Starting surge 2.5A (+12V)

Bus system
SCSI (Small Computer System Interface)

Temperature range
+10C - +50C

Humidity
10% - 85%, no condensation

Dimensions
H233.2 x D160.0 x B60.6 mm

Ordering number
HDD-SAM 492-5574-01