



Chapter 1: INTRODUCTION

1.1 Purpose.

To produce and check copies of a master tape.

1.2 Form of Distribution.

The program is distributed as a sum-checked binary tape for input by the initial instructions.

1.3 Method of Use.

The program must run on level 4 in the first store module. Program level 1 is also used.

## Chapter 2: FUNCTIONS

### 2.1 Read Master.

Entry at 21 reads into store the master tape. Reading stops when the reader unloads. The reading may be slowed by setting "TRACE" on level 1.

If the tape is too long to be held in store a two-tone hoot is emitted from the loudspeaker. Such tapes may be copied by 903 QCOPY. (see vol. 2.3.4). The 903 Algol Interpreter tape is just too large to be copied by this program.

### 2.2 Check against Master.

Entry at 22 checks a tape against the copy held in store. If an error is detected a two-tone hoot is emitted from the loudspeaker. The master tape should be reinput at 21.

### 2.3 Punch and Check Copies.

Entry at 23 punches copies of the master until 6 feet of tape have been punched. Load the initial blanks in the reader.

Entry at 24 causes the program to punch and check copies simultaneously; each copy is preceded and terminated by 1 foot of blank tape.

If a punching error is detected a two-tone hoot is emitted from the loudspeaker. The copy being checked and all copies so far output but not checked must be rejected. To continue copying re-enter at 23.

Chapter 3: OPERATING INSTRUCTIONS

SEE MEMORANDUM 9.6.

Step Number	Entry <sup>1</sup>	Tape to be loaded into reader	Effect
1	21	Master	Tape read at full <sup>2</sup> speed
2	22	Master	Tape checked at full speed
3	23	-	6 feet of tape output
4	24	Leading blanks of output	Tape checked and copied simultaneously.

*1 feet these in directly from the punch so that as the tape comes out of the punch it goes into the reader.*

NOTES.

1. The operating sequence for each entry is 'Reset', load reader, 'Jump'.
2. The tape is stopped when the reader unloads. To stop before the end of a tape, set level 1 to TRACE to slow down the tape and stop by pressing 'STOP'.

#### Chapter 4: ERROR INDICATIONS

If a two-tone hoot is emitted from the loudspeaker and the computer stops reading, an error has been detected. The hoot may be demonstrated by entry at 25.

Possible errors are:

- (1) The tape is too long to be copied by this program. It may be copied by 903 QCOPY (vol 2. 3. 4).
- (2) A read error has occurred. Start again at step 1.
- (3) A punch error has occurred. Reject the current copy and continue at step 3.

If level 2 or level 3 are switched to trace accidentally the program is not affected.

#### Chapter 5: STORE USED

The program occupies locations 21 to 233.

The rest of the first store module is used to store the characters of the master tape (two per word).

#### Chapter 6: TIME TAKEN

The program runs at the speed of the punch.