LOAD IT DATA RECORDER



Mills

Manufactured by:

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OPERATING INSTRUCTIONS FOR YOUR LOAD-IT DATA RECORDER

DESCRIPTION

The LOAD—IT DATA RECORDER is a device for storing and recalling computer programmes on ordinary cassette tapes. It can be used for saving programmes you have written and want to recall for later use. It can also be used to read pre-recorded programmes that you have purchased.

The LOAD-IT DATA RECORDER incorporates manual adjustment of the read/write head in conjunction with an LED Display which shows maximum signal strength.

The Azimuth angle of the playback head can be adjusted at the start of tape loading, by means of an adjustable knob until the optimum position is achieved.

This ensures accurate first time loading of all computer games, software, even on more complex Turbo-Load tapes.

PRELIMINARY CHECKOUT

Before using your LOAD-IT DATA RECORDER to recall or store programmes you should complete the preliminary checks - which are described below:-

- Turn off the computer and plug in the LOAD-IT DATA RECORDER.
- b) Ensure that the DATA RECORDER motor is off by checking that all of the function keys are up. If any are not, press the STOP button.
- c) Turn the computer on.

IMPORTANT

It is also important to keep the LOAD-IT DATA RECORDER at least 2 feet away from the TV because radio emissions from the TV can interfere with the correct operation of the Unit.

MECHANICAL CHECKS

- Press the PLAY button on the DATA RECORDER. Look to see that, as the button is engaged, the READ/WRITE heads move towards the spindles and the capstan comes into contact with the pinch roller (see Fig.1). The take-up spindle should be moving smoothly in a counter-clockwise direction.
- Now press the STOP button. The heads should move back and the spindle stop.
- Press the REWIND button. The tape heads should remain in the inactive position and the supply spindle should move rapidly clockwise.
- Press STOP again and then F.FWD. The tape heads should still remain in the inactive position and the take-up spindle should move rapidly counterclockwise.
- Press STOP once more and then GENTLY attempt to press RECORD. You should feel strong mechanical resistance.

ELECTRONIC CHECKS

At switch on, at least one and possibly two red bars of the LED display will light up -- this shows that the system is working correctly.

LOADING INSTRUCTIONS

- 1) Insert the cassette into your LOAD-IT recorder.
- Make sure that the tape is completely rewound to the beginning of the first side.
- 3) SETTING THE "LOAD-IT" SYSTEM.

Two alternative methods are available to make best use of the Load-It system:-

a) First Method

Press "PLAY" on the recorder, and during the first part of the Loading Sequence, before "FOUND"/PROGRAM appears on the screen, adjust knob slowly until the maximum number of red segments have lit up. This indicates that you have obtained the strongest signal from the tape.

b) Second Method

Allow tape to run until tape recorded with the required programme is travelling through the recorder. Adjust the knob slowly until the maximum number of red segments are lit up. Then press STOP. REWIND back to the start of the tape. Leave the LOAD-IT adjustment knob in the position that has been decided above and run through the normal tape loading instructions.

- c) Once adjusted, DO NOT MOVE the knob from that position whilst continuing to use the same particular side of a given tape.
- 5) If the tape fails to load, then repeat the procedure. Should difficulty continue to be experienced, turn to the section "Cleaning and Demagnetizing Your Load-It Data Recorder Heads".

FURTHER GUIDELINES

- Always return adjusting knob to mid-position before commencing load procedure with different tapes.
- ii) Once end of travel is reached, do NOT force the knob further.

CARE AND MAINTENANCE

CARE OF TAPES

Be careful to rewind all tapes to the beginning after use, because this protects the recording from abrasion and contamination. Do not store or place any tapes near strong magnetic fields such as may occur near loudspeakers or large motors.

LOAD-IT DATA RECORDER

The LOAD-IT DATA RECORDER uses magnetic heads to record and retrieve the information on the cassette tapes. These heads tend to accumulate residue and dirt from the tape as the tape moves across them. After a period of time, the accumulation lifts the tape slightly away from the heads, drastically degrading the signal from the head.

Therefore, the following procedure should be used after every 10 to 20 hours of tape playing time to ensure that your LOAD-IT DATA RECORDER continues to read and write reliably.

CLEANING AND DEMAGNETIZING YOUR "LOAD-IT" DATA RECORDER HEADS

You'll need the following tools and materials:

 Tape head cleaner. Alcohol may be used in emergency, but is not recommended for long term use.

NOTE: Do not use trichloroethane or any other plastic or rubber solvent.

- Cotton swabs.
- Tape head demagnetizer. Unit must have protective plastic or rubber covering on the piece that comes into contact with the tape heads so as not to scratch delicate head gap.

FOLLOW THESE STEPS TO CLEAN AND DEMAGNETIZE YOUR LOAD-IT DATA RECORDER

- STEP 1 Turn the computer off.
- STEP 2 Press EJECT to open cover, then press PLAY to expose heads.
- STEP 3 Put tape head cleaner on one side of a cotton swab. Gently wipe the surfaces of RECORD/PLAY and erase heads (see Fig.1). Scrub gently. Any build-up of tape oxide particles on or around the head gap of the RECORD/PLAY head may cause unreliable performance.

Also clean pinch roller and other tape bearing surfaces if tape head cleaner is suitable for this purpose (check label).

- STEP 4 Plug in demagnetizer, and activate it while it is at least one foot away from DATA RECORDER heads.
- STEP 5 Slowly move demagnetizer up to RECORD/PLAY head and around on head surface. Rate of motion should be approximately one inch per second during this time.
- STEP 6 Slowly move demagnetizer to the erase head and then to all other ferrous metal surfaces which come into proximity with the tape.
- STEP 7 Now slowly move demagnetizer away from heads.

 Do not deactivate field until demagnetizer is at least two feet away from heads.

The tape head cleaning and demagnetizing procedure is now complete. Inspect RECORD/PLAY surface for wear. If the tape has worn a groove on head surface more than a couple of tape thicknesses deep, program reading performance may be poor. If so, then replacement of tape head is indicated. Normally, a few thousand hours of tape running time have been completed before replacement is required.

USING THE COUNTER

Your "LOAD-IT" DATA RECORDER has a 3-digit counter that you can use to find SAVED programme quickly. When you use the counter properly, you can advance or rewind the tape to the location of the programme you want to LOAD. This saves time because the computer doesn't have to search the whole tape.

The counter runs whenever the tape is PLAYing, RECORDing, REWINDing, or Fast Forwarding (F.FWD).

Here's how to use the counter to find a SAVED programme quickly:-

- 1) Make sure your tape is rewound to the beginning.
- 2) Reset the counter to 000 by pressing the black button beside the 3-digit display.
- Note the counter number when you are ready to SAVE a programme. This number tells you where that programme will be located on the tape.
- Advance (F.FWD) or REWIND the tape to the counter number at which you SAVEd the programme you now want to IOAD.
- Follow the regular LOAD procedure.
- NOTE: The counter can't work accurately unless you follow steps 1 and 2. Don't reset the counter to 000 unless you're at the beginning of the tape.