


Radio Shack

TRS-80

**SCREEN
PRINTER**

Catalog Number 26-1151

Operator's Manual

CUSTOM MANUFACTURED IN U.S.A. FOR RADIO SHACK  A DIVISION OF TANDY CORPORATION

INTRODUCTION

The TRS-80 Screen Printer consists of a rotary printer, built-in power supply and 36" (90 cm) interconnect cable. It also contains a power-ON/OFF switch, power-ON indicator, a fuse and a PRINT command switch. The upper half of the case may be raised for access to the rotary printer for paper replacement. The front has a removable panel for access to the print head. This Screen Printer will connect to any TRS-80 Computer and print out whatever information is displayed on the Video Display screen.

SPECIFICATIONS:

Power Input	120 VAC, 60 Hz
Power Consumption at 120 VAC	60 Watts (Printing) 10 Watts (Standby)
Printing Rate	2,200 characters-per-second
Drive-unit Lifetime	500,000 screen printouts
Print-head Lifetime	5,000 screen printouts

CONNECTIONS

NOTE: The word "UP" is printed on the cable connectors to provide correct orientation.

Install the interconnect cable between the Screen Printer and the Computer expansion jack (under the removable cover).

Connect the AC power cord to any standard 120 VAC outlet.

OPERATION

NOTE: To avoid malfunctions in computer programs, set the power ON/OFF switch to "ON" whenever the Printer is connected to the Computer.

Apply power to the Printer, Computer and Video Display (in any order). Load a program into the Computer via tape cassette or keyboard and display whatever you want to be printed out. Press the PRINT command switch on the front of the Printer. The Printer immediately prints out all of the data that is displayed on the Video screen.

PAPER LOADING (See Figure 1)

A stripe on the paper indicates the end of the roll is approaching and that the roll should be replaced. You can buy new rolls of paper through your local Radio Shack store.

To replace the roll of paper, perform the following steps:

1. Raise the upper half of the case.
2. Release the snap-down paper-guide cover (A) by pulling outward on cover latch.
3. Insert the spindle in slots (B). Paper should roll off the spool at the bottom toward the rear.
4. Route the paper over the top spindle (C), with the coated side down.
5. Fold the paper to form a pointed edge (D).
6. Insert the pointed edge through the writing platen and pull the paper through until the entire folded section has passed the cutting edge on the platen (E).
7. Align edge of paper with paper guide (F).
8. Close the snap-down paper-guide (G).
9. Hold the end of the paper and, with an upward motion, press the paper firmly against the cutting edge. Continue the motion to tear the paper off.
10. Close the top half of the case.

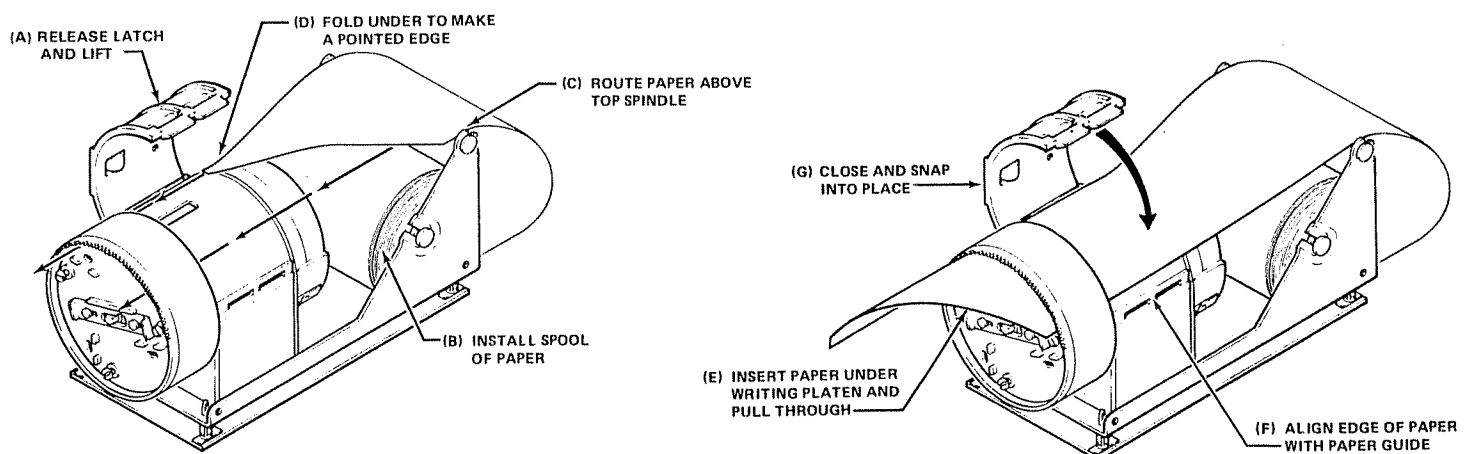


FIGURE 1. PAPER LOADING

HEAD ADJUSTMENT PROCEDURE

All printers are given an operational test before leaving the factory. Only minor adjustments should be required and it will not be necessary to remove the print head from its housing to make any preliminary centering adjustments. Before proceeding with this procedure, see Figure 2, showing the end view of the print head with the adjusting screws.

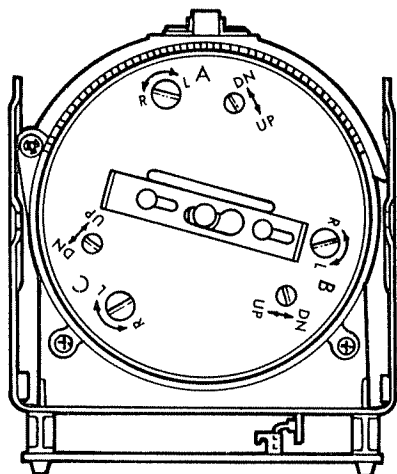


FIGURE 2. PRINT HEAD (END VIEW)

Apply power to the printer. Allow it to print out the video display with at least one full line of repeating ABC pattern, and remove power. Now look at the vertical alignment of characters in each line. Observing the first three characters in a line, determine if one of the three is out of alignment with the other two. Should the first character be either higher or lower than the second or third, refer to the adjustment screw at stylus "A" that is marked "DN↔UP". Turn this screw counterclockwise 1/4 turn to remove tension on the head. Now, by bringing the blade of the screwdriver to bear on the side of the screw head, it will be possible to move the stylus assembly in the desired direction. Then tighten the screw to hold the stylus assembly in place.

Apply power and recheck character alignment. If further adjustment is required, repeat the procedure. Should the second character be out of alignment with the first and third, go through similar adjustment procedures at stylus B. Likewise, to bring the third character in alignment with the first and second, make an adjustment at stylus C. Refer to Figure 3 for typical situations and alignment procedures.

When the required vertical adjustments have been made, pay attention to the spacing between columns A and B, B and C and C and A. The spaces between columns should be nearly equal. If not, equalize the spacing by making adjustments with R↔L screws associated with each stylus. See Figure 4 for adjustments to make in typical situations.

Stylus A	Stylus B	Stylus C	Stylus A	
A	B	C	A	Normal alignment
A	B	C	A	Irregular alignment (Move stylus "A" down)
A	B	C	A	Irregular alignment (Move stylus "B" up)
A	B	C	A	Irregular alignment (Move stylus "C" down)

FIGURE 3. VERTICAL CHARACTER ALIGNMENT

Stylus A	Stylus B	Stylus C	Stylus A	
A	B	C	A	
A	B	C	A	Normal spacing
A	B	C	A	
AB		C	A	Unequal spacing
AB		C	A	(Move stylus B
AB		C	A	to the right)
A	BC		A	Unequal spacing
A	BC		A	(Move stylus C
A	BC		A	to the right)
A	B	C	A	Unequal spacing
A	B	C	A	(Move stylus A
A	B	C	A	to the left)

FIGURE 4. COLUMN CHARACTER ALIGNMENT

CLEANING PROCEDURE

After printing 10 or more rolls of paper a small amount of dust will accumulate under the print head assembly. At this time, the front plate of the housing should be removed and the dust cleaned out with a small brush or alcohol saturated pads.

LIMITED WARRANTY

Radio Shack warrants for a period of 90 days from the date of delivery to customer that the computer hardware described herein shall be free from defects in material and workmanship under normal use and service. This warranty shall be void if the computer case or cabinet is opened or if the unit is altered or modified. During this period, if a defect should occur, the product must be returned to a Radio Shack store or dealer for repair. Customer's sole and exclusive remedy in the event of defect is expressly limited to the correction of the defect by adjustment, repair or replacement at Radio Shack's election and sole expense, except there shall be no obligation to replace or repair items which by their nature are expendable. No representation or other affirmation of fact, including but not limited to statements regarding capacity, suitability for use, or performance of the equipment, shall be or be deemed to be a warranty or representation by Radio Shack, for any purpose, nor give rise to any liability or obligation of Radio Shack whatsoever.

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