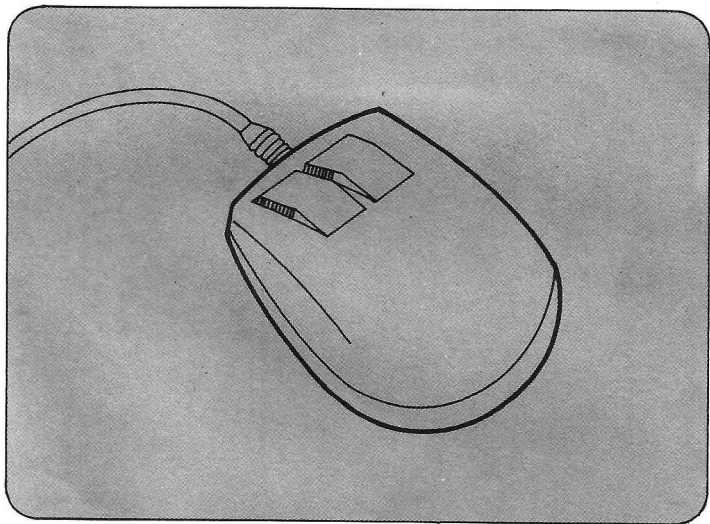


INSTRUCTION

Parallel Mouse

MS-10 200 COUNT



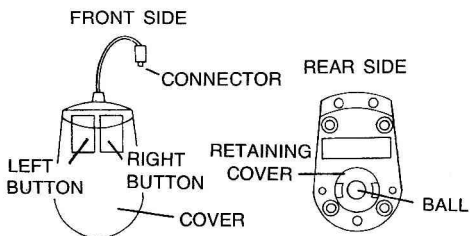
Introduction.

- Thanks for buying MS-10 Mouse
- MS-10 is an input device corresponding to the operation of mouse or joy stick software. It can release you from key board operation and let you enjoy the game with greater reality. It also provides an operation for other software.
- Before using, please read these INSTRUCTIONS carefully.

1. Compatible devices.

- It is compatible with any kind of MSX series. Please refer to the software manual to decide which joy stick port should be connected.
- The software corresponding to the joy stick can be used in “joy stick mode”.

2. Name of parts.



3. Operating method

- Remove the packing inserted in the gap between the ball and retaining cover which is to prevent rattling of ball during transportation.
- Insert MS-10 connector to the corresponding port.

4. Maintenance

- Please clean the ball and roller inside the cover with cloth smooetimes. The retaining cover can be removed easily by turning to the left.

- Don't open the rear cover or disassemble the inside parts. Otherwise, you will lose your guarantee.

5. Mouse mode.

- When using software that corresponds to a mouse, please use in this mode.
- Detect the mouse movement of four directions by moving forward, backward, left and right.

a) PAD command & STRIG command can not be used in MSX1. In such a case, it is necessary to make a program corresponding to PAD command by referring to the following sample program.

```

== MSX1 SAMPLE PROGRAM ==
10 REM *** MSX1 sample ***
20 SCREEN 2:CLS
30 CLEAR 256, &HDFFF
40 FOR N=0 TO 127
50 READ M$:M=VAL ("&H"+M$)
60 POKE &BE000+N,M
70 NEXT N
80 C = 15
90 XX = 127:YY = 96
100 DEF USRO = &HE000
110 ON INTERVAL = 4 GOSUB 150
120 INTERVAL ON
130 PSET (XX, YY), C
140 GOTO 140
150 A = USRO (0)
160 Y = PEEK (&HE200):IF Y > 127 THEN Y = Y-256
170 X = PEEK (&HE201):IF X > 127 THEN X = X-256
180 XL = XX:YL = YY
190 XX = XX-X:IF XX < 0 THEN XX = 0 :IF XX > 255 THEN
  XX = 255
200 YY = YY-Y:IF YY < 0 THEN YY = 0 :IF YY > 191 THEN
  YY = 191
210 IF STRIG (1) THEN LINE (XL, YL)-(XX, YY),C ELSE
  PRESET STEP (0,0)

```

```

220 IF STRIG (3) THEN CLS: GOTO 90
230 RETURN 130
240 DATA 3E,0F,CD,96,00,E6,8F,F6,30,5F,00,3E,0F,CD,
    93,00
250 DATA 06,1A,10,FE,00,3E,0E,CD,96,00,57,7B,E6,8F,
    06,02
260 DATA 5F,10,FE,00,3E,0F,CD,93,00,3E,0F,A2,07,07,
    07,07
270 DATA 4F,06,07,10,FE,00,3E,0E,CD,96,00,57,7B,F6,30,5F
280 DATA 00,3E,0F,CD,93,00,3E,0F,A2,B1,67,06,07,10,
    FE,00
290 DATA 3E,0E,CD,96,00,57,7B,E6,8F,5F,00,3E,0F,CD,
    93,00
300 DATA 3E,0F,A2,07,07,07,07,06,07,4F,10,FE,00,3E,0E,00
310 DATA CD,96,00,57,3E,0F,A2,B1,6F,22,00,E2,C9,00,
    00,00

```

b) PAD command & STRIG command can be used for MSX2 and MSX2+

= = MSX2 (MSX2+) SAMPLE PROGRAM = =

```

10 REM *** MSX2 only sample ***
20 SCREEN 5:CLS
30 C=15
40 XX=127:YY=96
50 PSET (XX,YY),C
60 XL=XX:YL=YY
70 XX=XX+X:IF XX<0 THEN XX=0 :IF XX>255
    THEN XX=255
80 YY=YY+Y:IF YY<0 THEN YY=0 :IF YY>191 THEN
    YY=191
90 Z=PAD (12)
100 X=PAD (13)
110 Y=PAD (14)
120 IF STRIG(1) THEN LINE (XL,YL)-(XX,YY),C ELSE
    PRESET STEP (0,0)
130 IF STRIG(3) THEN CLS:GOTO 40
140 GOTO 50
150 END

```

6. Joy stick mode.

- Use this mode when using that corresponds to a joy stick software.
- Detect the mouse movement of eight directions by moving forward, backward, left ward, right ward and obliquely.
- When changing to the joy stick mode, turn OFF the power switch, press and hold left button of MS-10 then turn ON the power switch. Please don't release the button until BASIC comes up.
- In this mode, STICK command & STRIG command can be used.

```
== JOY STICK MODE SAMPLE PROGRAM ==
10 REM *** JOY STICK sample program ***
20 SCREEN 5:CLS
30 C=15
40 XX=127:YY=96
50 PSET (XX,YY),C
60 ON STICK(1) GOSUB 100,110,120,130,140,150,160,170
70 IF STRIG(1) THEN PSET (X,Y),C ELSE PRESET
   STEP(0,0)
80 IF STRIG(3) THEN CLS:GOTO 40
90 GOTO 50
100 Y=Y-2:RETURN
110 X=X+2:Y=Y-2:RETURN
120 X=X+2:RETURN
130 X=X+2:Y=Y+2:RETURN
140 Y=Y+2:RETURN
150 X=X-2:Y=Y+2:RETURN
160 X=X-2:RETURN
170 X=X-2:Y=Y-2:RETURN
180 END
```

7. Specification

1. Resolution: 200 counts/inch
2. Moving speed: 250 mm/sec.
3. Pin assignment:

pin no	1	2	3	4	5	6	7	8	9
mouse mode	DATA0	DATA1	DATA2	DATA3	+5V	LEFT	RIGHT	STROBU	GND
joy stick mode	FWD	BACK	LEFT	RIGHT	+5V	TRG1	TRG2	STROBU	GND

4. Operating temperature: -10°C — $+45^{\circ}\text{C}$
5. Operating humidity: 5% — 95%
6. Storage temperature: -40°C — $+60^{\circ}\text{C}$
7. Storage humidity: 5% — 95%
8. Weight: 126g
9. Switch: Tact switch $\times 2$
10. Connector: D-Sub 9P female
11. Interface: MSX
12. Electric source: +5V DC
13. Power consumption: 50mA MAX.



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