

```

10 ON BREAK GOSUB 660
20 MODE 2:INK 0,0:INK 1,26:PEN 1:PAPER 0:BORDER 0
30 LOCATE 18,1:PRINT"TEST DE BRANCHEMENT DE L'INTERFACE SUR MINITEL"
40 LOCATE 29,10:PRINT"DEMARREZ VOTRE MINITEL.":GOSUB 580
50 DI:OUT &FAF1,&70:OUT &FAF1,&7B:OUT &FAF1,&7E:EI
60 DI:OUT &FAF1,&70:OUT &FAF1,&7B:OUT &FAF1,&7E:EI
70 CLS:LOCATE 35,1:PRINT"TEST No 1"
80 LOCATE 1,5:PRINT"VERIFIEZ QUE TOUTS LES CARACTERES QUI S'AFFICHENT SUR LES ECRANS DE L'AMSTRAD ET DU MINITEL SONT IDENTIQUES."
90 LOCATE 1,10:A=&C:GOSUB 560
100 FOR A=&30 TO &7A:GOSUB 560:PRINT CHR$(A); " ";:NEXT
110 GOSUB 640
120 IF REP$="N" THEN CLS:GOTO 590
130 CLS:LOCATE 35,1:PRINT"TEST No 2"
140 LOCATE 1,5:PRINT"VERIFIEZ QUE LA SONNERIE DU MINITEL FONCTIONNE."
150 A=&C:GOSUB 560:A=&7:GOSUB 560
160 GOSUB 640
170 IF REP$="N" THEN CLS:GOTO 590
180 CLS:LOCATE 35,1:PRINT"TEST No 3"
190 LOCATE 1,5:PRINT"FRAPPEZ LES TOUCHES ALPHANUMERIQUES DU CLAVIER MINITEL ET VERIFIER QUE LES CARACTERES CORRESPONDANTS S'AFFICHENT SUR LES DEUX ECRANS.FRAPPEZ IESPACEX SUR LE MINITEL POUR SORTIR."
200 LOCATE 1,10:A=&C:GOSUB 560
210 GOSUB 570:PRINT CHR$(A);:IF A=&20 THEN 220 ELSE 210
220 GOSUB 640
230 IF REP$="N" THEN CLS:GOTO 590
240 ESSAI=1
250 CLS:LOCATE 35,1:PRINT"TEST No 4":LOCATE 35,2:PRINT"ESSAI No";essai
260 LOCATE 1,5:PRINT"VERIFIEZ A L'ECOUTEUR DU TELEPHONE LA PRESENCE DE LA PORTEUSE (TONALITE AIGUE). FRAPPEZ UNE TOUCHE POUR L'ESSAI D'OPPOSABILITE."
270 CALL &BB1B
280 RESTORE 290
290 DATA &1B,&39,&6F,&1B,&39,&6B,&1B,&39,&67
300 FOR X=1 TO 6:READ A:GOSUB 560:NEXT
310 FOR S=1 TO 3:GOSUB 570:A(S)=A:NEXT
320 IF A(1)=&5B OR A(2)=&5B OR A(3)=&5B THEN 330 ELSE REP$="N":GOTO 340
330 GOSUB 640
340 FOR X=1 TO 3:READ A:GOSUB 560:NEXT
350 IF REP$="O" THEN 370 ELSE ESSAI=ESSAI+1
360 IF ESSAI<4 THEN 250 ELSE CLS:GOTO 610
370 essai=1
380 CLS:LOCATE 35,1:PRINT"TEST No 5"
390 LOCATE 35,2:PRINT"ESSAI No";essai
400 LOCATE 1,5:PRINT"VERIFIEZ SUR L'ECRAN MINITEL LA PRESENCE DE LA LETTRE 'IX' PENDANT SEULEMENT UNE DEMIE SECONDE.FRAPPEZ UNE TOUCHE POUR L'ESSAI DE CONNEXION."
410 CALL &BB1B
420 RESTORE 430
430 DATA &1B,&39,&6B,&1B,&39,&67
440 FOR X=1 TO 3:READ A:GOSUB 560:NEXT
450 GOSUB 640
460 FOR X=1 TO 3:READ A:GOSUB 560:NEXT
470 IF REP$="O" THEN 490

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480 CLS:ESSAI=ESSAI+1:IF ESSAI<4 THEN 380 ELSE 620
490 REM OPTION
500 CLS:LOCATE 27,3:PRINT"TOUS LES TESTS SONT BONS !"
510 LOCATE 9,10:PRINT"VOTRE INSTALLATION EST DECLAREE APTE AUX TRANSFERTS DE DONNEES !"
520 GOSUB 580:A=&C:GOSUB 560
530 A$="MINITEL CORRECT..."
540 FOR X=1 TO LEN (A$):A=ASC(MID$(A$,X,1)):GOSUB 560:NEXT
550 A=&7:GOSUB 560:MODE 2:END
560 B=INP(&FAF1) AND 1:IF B<>1 THEN 560 ELSE OUT &FAF0,A:RETURN
570 B=INP(&FAF1) AND 2:IF B<>2 THEN 570 ELSE A=INP(&FAF0):RETURN
580 LOCATE 40,23:PRINT"FRAPPEZ UNE TOUCHE ...":CALL &BB1B:RETURN
590 LOCATE 19,12:PRINT"SORTEZ LA DISQUETTE , ETEIGNEZ VOTRE MICRO ET"
600 LOCATE 20,13:PRINT"REPRENEZ LE BRANCHEMENT DE L'INTERFACE !":GOSUB 580:END
610 LOCATE 19,10:PRINT"HELAS!!! VOTRE MINITEL N'EST PAS OPPOSABLE OU":GOTO 590
620 LOCATE 18,10:PRINT"VOTRE MINITEL NE FONCTIONNE PAS CORRECTEMENT OU":GOTO 590
640 LOCATE 40,24:PRINT"CORRECT ? : O/N"
650 REP$=UPPER$(INKEY$):IF REP$<>"O" AND REP$<>"N" THEN 650 ELSE RETURN
660 DATA &1B,&39,&67
670 RESTORE 660
680 FOR X=1 TO 3:READ A:GOSUB 560:NEXT
690 MODE 2:LOCATE 31,10:PRINT"TEST INCOMPLET !!!":GOSUB 580:RUN
700 FOR X=1 TO 4:PRINT HEX$(A(X)):NEXT

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Figure 8 - Programme TEST pour essais de la carte.

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5 REM AMSCOM,programme basic de lancement
10 MODE 2:INK 1,26:INK 0,0:PEN 1:PAPER 0:BORDER 0
20 MEMORY &1FFF:POKE &B632,&FF:GOSUB 360
30 LOCATE 24,12:PRINT"XIMPORTANT:X DEMARREZ VOTRE MINITEL"
40 LOCATE 40,24: PRINT"FRAPPEZ UNE TOUCHE ..."
50 CALL &BB1B:CLS:GOSUB 360
60 OUT &FAF1,&70:OUT &FAF1,&7B:OUT &FAF1,&7
70 FOR X=&40 TO &169:POKE X,0:NEXT
80 LOCATE 29,12:PRINT"XESSION ou XRIEXCEPTION"
90 GOSUB 350
100 IF A$="E" THEN 120
110 IF A$="R" THEN 280 ELSE 90
120 LOAD"AMSCOM1.BIN",&A400
130 LOCATE 29,12:PRINT "XCLASSETE ou XDISQUETTE"
140 GOSUB 350
150 IF A$="C" THEN 190
160 IF A$="D" THEN 170 ELSE 140
170 CLS:LOCATE 27,10:PRINT"- INSERER LE DISC SUPPORT -"
180 LOCATE 40,24:PRINT"FRAPPER UNE TOUCHE ...":CALL &BB1B:CLS:CAT:GOTO 200
190 CLS:LOCATE 28,10:PRINT"- INSERER LA K7 SUPPORT -"
200 LOCATE 30,24:INPUT"Nom du fichier : ",B$
210 IF (LEN(B$)>12 OR LEN(B$)<1) AND A$="C" THEN PRINT CHR$(7):GOTO 190
220 IF (LEN(B$)>12 OR LEN(B$)<1) AND A$<>"C" THEN PRINT CHR$(7):GOTO 170
230 FOR X=1 TO LEN(B$):POKE &40+(X-1),ASC(MID$(B$,X,1)):NEXT
240 POKE &4C,LEN (B$)
250 CLS:LOCATE 29,12:PRINT"CHARGEMENT EN COURS ..."
260 OUT &FAF1,&70:OUT &FAF1,&7B:OUT &FAF1,&7:CALL &A400
270 CLS:LOCATE 32,12:PRINT"ERREUR DISQUE !":CALL &BB1B:RUN
280 LOAD"AMSCOM2.BIN",&A400:CLS
290 LOCATE 14,12:PRINT"INSERER UN DISC POUR SAUVEGARDE DU FICHIER RECU ..."
300 LOCATE 40,24:PRINT"FRAPPER UNE TOUCHE ...":CALL &BB1B
310 CLS:LOCATE 29,12:PRINT"ATTENTE CONNEXION ..."
320 LOCATE 40,24:PRINT"XFRAPPER UNE TOUCHE ...X"
330 OUT &FAF1,&70:OUT &FAF1,&7B:OUT &FAF1,&7:CALL &A400
340 CLS:LOCATE 30,12:PRINT"PORTEUSE ABSENTE !":GOTO 330
350 A$=UPPER$(INKEY$):IF A$="" THEN 350 ELSE RETURN
360 LOCATE 21,1:PRINT"XTELECHARGEMENT DE FICHIERS PAR MINITELX"
370 LOCATE 23,2:PRINT"XGROUPEMENT 1987 : S.C.L et AMSCOMX":RETURN

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Figure 9 - Lanceur (Run « Amscom »)

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5 CP=CP+100: REM "AMSCOM1.DAT"
10 MEMORY &A3FF
20 FOR I= &A400 TO &A580 STEP 8
30 FOR J=0 TO 7:READ N$:V=VAL("&" +N$)
40 POKE I+J,V:TOT=TOT+V:NEXT J:
50 READ A:IF A=TOT THEN 70
60 PRINT" ERREUR EN ";CP:STOP:
70 TOT=0:CP=CP+10:NEXT I
80 PRINT "SAVE ";CHR$(34);"AMSCOM1.BIN";
90 PRINT CHR$(34);",B,&A400,&161,&A400"
100 DATA 21,4C,00,46,21,40,00,11, 293
110 DATA 00,C0,CD,77,BC,D0,22,54, 1030
120 DATA 00,ED,43,50,00,ED,53,4E, 782
130 DATA 00,32,4D,00,FE,16,CA,58, 693
140 DATA A5,21,60,00,CD,83,BC,D0, 1026
150 DATA 22,52,00,CD,7A,BC,D0,CD, 1044
160 DATA 14,8C,01,DD,A4,CD,CD,A4, 1168
170 DATA CD,18,BB,01,16,A5,CD,4D, 886
180 DATA A5,01,F5,A4,CD,CD,A4,F3, 1392
190 DATA 01,0B,A5,CD,4D,A5,C3,6E, 929
200 DATA A4,C5,D5,CD,59,A4,D1,C1, 1434
210 DATA C9,06,0C,0E,FF,1E,FF,1D, 802
220 DATA 20,FD,0D,20,F8,05,20,F3, 858
230 DATA D9,21,00,00,D9,C9,CD,51, 954
240 DATA A4,3E,07,CD,BE,A4,ED,4B, 1104
250 DATA 50,00,21,21,01,09,11,40, 237
260 DATA 00,D9,23,3E,04,BC,D9,CC, 927
270 DATA 51,A4,2D,20,1D,25,20,1A, 446
280 DATA 01,12,A5,CD,4D,A5,06,03, 640
290 DATA CD,5B,A4,FB,01,31,A5,CD, 1131
300 DATA 4D,A5,06,03,CD,5B,A4,C3, 906
310 DATA 00,00,1A,F5,F6,0F,07,07, 546
320 DATA 07,07,CD,BE,A4,F1,F6,F0, 1300
330 DATA CD,BE,A4,13,1B,C3,F5,01, 1043
340 DATA F1,FA,ED,78,CB,47,28,FA, 1412
350 DATA F1,0B,ED,79,C9,26,1D,2E, 924
360 DATA 0C,CD,75,BB,0A,87,CB,CD, 1119
370 DATA 5A,BB,03,18,F7,41,54,54, 784
380 DATA 45,4E,54,45,20,45,4D,49, 551
390 DATA 53,53,49,4F,4E,20,2E,2E, 520
400 DATA 2E,20,20,20,00,45,4D,49, 361
410 DATA 53,53,49,4F,4E,20,45,4E, 575
420 DATA 20,43,4F,55,52,53,20,2E, 506
430 DATA 2E,2E,00,1B,39,6F,1B,39, 371
440 DATA 68,00,1B,39,67,00,0C,1F, 334
450 DATA 40,01,45,4D,49,53,53,49, 523
460 DATA 4F,4E,20,45,4E,20,43,4F, 514
470 DATA 55,52,53,20,2E,2E,2E,0A, 430
480 DATA 00,07,0C,1F,40,01,45,4D, 261
490 DATA 49,53,53,49,4F,4E,20,54, 585
500 DATA 45,52,4D,49,4E,45,45,20, 549
510 DATA 2E,2E,2E,0A,00,0A,87,CB, 541
520 DATA C5,CD,BE,A4,C1,03,18,F5, 1221
530 DATA 21,60,00,01,00,00,CD,80, 463
540 DATA BC,D2,69,A5,77,23,03,18, 849
550 DATA F5,ED,43,50,00,C3,2B,A4, 1031
560 DATA 00,00,00,00,00,00,00,00, 0
570 DATA 00,00,00,00,00,00,00,00, 0
580 DATA 00,00,00,00,00,00,00,00, 0

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Figure 10 - Amscom 1 : émission

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5 CP=CP+100: REM "AMSCOM2.DAT"
10 MEMORY &A3FF
20 FOR I= &A400 TO &A5E0 STEP 8
30 FOR J=0 TO 7:READ N$:V=VAL("&"+N$)
40 POKE I+J,V:TOT=TOT+V:NEXT J:
50 READ A:IF A=TOT THEN 70
60 PRINT" ERREUR EN ";CP:STOP:
70 TOT=0:CP=CP+10:NEXT I
80 PRINT "SAVE ";CHR$(34);"AMSCOM2.BIN";
90 PRINT CHR$(34);",B,&A400,&1E0,&A400"
100 DATA CD,18,BB,CD,14,BC,01,81, 959
110 DATA A5,CD,8E,A5,01,1B,A5,CD, 1075
120 DATA 8E,A5,01,86,A5,CD,8E,A5, 1119
130 DATA 01,7D,A5,CD,8E,A5,CD,6B, 1115
140 DATA A4,FE,13,20,F9,CD,6B,A4, 1194
150 DATA FE,59,20,F9,CD,6B,A4,FE, 1354
160 DATA 13,20,F9,CD,6B,A4,FE,53, 1113
170 DATA 20,DE,01,1B,A5,CD,78,A4, 936
180 DATA F3,CD,6B,A4,FE,07,20,F9, 1261
190 DATA 21,40,00,CD,6B,A4,FE,13, 846
200 DATA CA,8B,A4,CB,FF,07,07,07, 981
210 DATA 07,47,C5,CD,6B,A4,C1,FE, 1198
220 DATA 13,CA,8B,A4,CB,FF,A0,77, 1258
230 DATA 23,18,E0,01,F1,FA,ED,78, 1132
240 DATA CB,4F,2B,FA,0B,ED,78,C9, 1141
250 DATA 26,1D,2E,0C,CD,75,BB,0A, 644
260 DATA B7,CB,CD,5A,BB,03,18,F7, 1139
270 DATA 01,35,A5,CD,78,A4,11,80, 853
280 DATA BE,21,40,00,01,20,00,ED, 557

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290 DATA B0,3A,4C,00,11,80,BE,83, 776
300 DATA 5F,3E,00,12,21,4C,00,46, 354
310 DATA 21,40,00,11,00,C0,CD,8C, 651
320 DATA BC,D2,FA,A4,E5,21,4D,00, 1151
330 DATA 7E,CB,87,FE,16,CA,AB,A5, 1275
340 DATA 21,60,00,ED,5B,50,00,ED, 774
350 DATA 4B,52,00,CD,98,BC,D2,FA, 1162
360 DATA A4,E1,01,15,00,09,3A,4E, 556
370 DATA 00,77,23,3A,4F,00,77,CD, 615
380 DATA 8F,BC,D2,FA,A4,01,81,A5, 1250
390 DATA CD,8E,A5,01,4D,A5,CD,8E, 1102
400 DATA A5,01,86,A5,CD,8E,A5,C3, 1172
410 DATA 00,00,CD,C1,A5,01,88,A5, 865
420 DATA CD,8E,A5,01,65,A5,CD,8E, 1126
430 DATA A5,01,86,A5,CD,8E,A5,01, 978
440 DATA B0,BE,CD,8E,A5,CD,C1,A5, 1393
450 DATA C3,00,00,52,45,43,45,50, 562
460 DATA 54,49,4F,4E,20,45,4E,20, 525
470 DATA 43,4F,55,52,53,20,2E,2E, 520
480 DATA 2E,20,20,20,00,53,41,55, 375
490 DATA 56,45,47,41,52,44,45,20, 542
500 DATA 45,4E,20,43,4F,55,52,53, 575
510 DATA 20,2E,2E,2E,00,53,41,55, 403
520 DATA 56,45,47,41,52,44,45,20, 542
530 DATA 54,45,52,4D,49,4E,45,45, 601
540 DATA 20,20,20,20,00,45,52,52, 361
550 DATA 45,55,52,20,54,52,41,4E, 577
560 DATA 53,4D,49,53,53,49,4F,4E, 629
570 DATA 20,21,20,20,00,1B,39,68, 317

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580 DATA 00,0C,1F,40,01,00,0A,00, 118
590 DATA 0C,07,1F,40,01,00,0A,B7, 308
600 DATA C8,C5,CD,99,A5,C1,03,18, 1140
610 DATA F5,F5,01,F1,FA,ED,78,CB, 1542
620 DATA 47,28,FA,0B,F1,ED,79,C9, 1172
630 DATA 21,00,01,ED,48,50,00,09, 435
640 DATA 01,60,00,0A,CD,95,BC,03, 652
650 DATA 2D,20,F8,25,20,F5,C3,D1, 1043
660 DATA A4,06,03,0E,FF,1E,FF,1D, 756
670 DATA 20,FD,0D,20,F8,05,20,F3, 858
680 DATA C9,00,00,00,00,00,00,00, 201
690 DATA 00,00,00,00,00,00,00,00, 0
700 DATA 00,00,00,00,00,00,00,00, 0

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Figure 11 - Amscom 2 : réception