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01.00 PURPOSE:

THIS DISKETTE WILL LOAD ATTACHMENT STORAGE PROGRAMS INTO ALL NECESSARY DEVICES ON A SERIES/1 SYSTEM AND WILL SUPPLY UTILITIES FOR UPDATING THIS DISKETTE.

02.00 PREREQUISITE:

02.10 PROGRAM:

THIS PROGRAM WILL RUN WITH A CONTROL PROGRAM.

02.20 EQUIPMENT:

A SERIES/1 PROCESSING UNIT, AT LEAST ONE DISKETTE DRIVE AND OTHER SUITABLE INPUT/OUTPUT DEVICES.

02.30 ASSUMED:

ALL PROCESSING UNIT AND DISKETTE DIAGNOSTICS HAVE RUN WITHOUT ERROR.

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03.00 OPERATING PROCEDURE:

03.01 FIRST TIME USE OF ATTACHMENT STORAGE SYSTEM DISKETTE:

THE CONFIGURATION TABLE MUST BE COPIED FROM THE BASIC DISKETTE ONTO THE ATTACHMENT STORAGE SYSTEM DISKETTE. USE THE FOLLOWING PROCEDURE TO COPY IT.
 LOAD PROGRAM U38F0 FROM THE BASIC DISKETTE (PART NUMBER 1635001) AND SELECT PRINT OPTIONS (OPTION 03). THEN DO A DISKETTE COPY (OPTION 0D) TO THE ATTACHMENT STORAGE SYSTEM DISKETTE (PART NUMBER).

03.02 TO USE THE 5251 AS AN ALTERNATE CONSOLE:

BEFORE A 5251 DISPLAY CAN BE USED AS AN ALTERNATE CONSOLE, ATTACHMENT STORAGE PROGRAMS (E4D0 AND E4D1), FOR KEYBOARD DEFINITION, MUST BE ON THE ATTACHMENT STORAGE SYSTEM DISKETTE (PART NUMBER 6847127). IF THESE PROGRAMS HAVE NOT BEEN WRITTEN ONTO DISKETTE PART NUMBER 6847127 USE THE FOLLOWING PROCEDURE TO WRITE THEM.

USE THE UTILITY PROGRAM 38F9 TO DISPLAY THE VTOC FOR DISKETTE PART NUMBER 6847127.

SEE IF DATA SET(S) 'E4D0' AND 'E4D1' ARE ON THE DISKETTE.
 IF DATA SET 'E4D0' IS NOT ON DISKETTE WRITE IT THERE FROM DISKETTE PART NUMBER 6826590.

IF DATA SET 'E4D1' IS ON DISKETTE PART NUMBER 6826590 THEN IT MUST ALSO BE COPIED TO DISKETTE PART NUMBER 6847127.
 IF IT IS NOT ON DISKETTE PART NUMBER 6826590 THEN IT IS NOT REQUIRED FOR THE ALTERNATE CONSOLE SUPPORT.

03.03 TO USE THE 3101 ATTACHED TO THE MULTI FUNCTION ATTACHMENT AS AN ALTERNATE CONSOLE:

BEFORE A 3101 DISPLAY ATTACHED TO A MULTI FUNCTION ATTACHMENT CAN BE USED AS AN ALTERNATE CONSOLE THE ATTACHMENT STORAGE PROGRAM (E6C0), FOR ATTACHMENT DEFINITION, MUST BE ON THE ATTACHMENT STORAGE SYSTEM DISKETTE (PART NUMBER 6847127). IF THE PROGRAM HAS NOT BEEN WRITTEN ONTO DISKETTE PART NUMBER 6847127 USE THE FOLLOWING PROCEDURE TO WRITE IT.

USE THE UTILITY PROGRAM 38F9 TO DISPLAY THE VTOC FOR DISKETTE PART NUMBER 6847127.

SEE IF DATA SET 'E6C0' IS ON THE DISKETTE.
 IF DATA SET 'E6C0' IS NOT ON DISKETTE WRITE IT THERE FROM DISKETTE PART NUMBER 6031185.

03.04 OPERATING PROCEDURE:

THE STANDARD DCP LOADING, OPERATING AND TERMINATION PROCEDURES ARE USED IN THIS PROGRAM.
 TO USE THIS DISKETTE:
 INSERT DISKETTE PN= INTO DISKETTE DRIVE.

- 1) TO LOAD ATTACHMENT STORAGE PROGRAMS INTO DEVICES.
 - A) SET MODE SWITCH TO NORMAL FOR NORMAL OPERATION.
 SET MODE SWITCH TO DIAGNOSE IF YOU WANT TO STOP AT THE ERROR STOPS WHICH WILL OCCUR IF THERE ARE ERRORS. THE ERROR STOPS ARE DESCRIBED IN SECTIONS 05.00 AND 06.00.
 - B) PRESS AND RELEASE IPL PUSHBUTTON.
 ALL ATTACHMENT STORAGE PROGRAMS CONFIGURED FOR THIS SYSTEM WILL BE LOADED.

2) TO CHANGE THE ATTACHMENT STORAGE SYSTEM DISKETTE.

- A) AFTER THE IPL, ENTER 'B3AF0'.
- B) ALTERNATE CONSOLE WILL PRINT:

```

**
**
**
ATTACHMENT STORAGE PROGRAM SYSTEM UTILITY OPTIONS
00=ADD ATTACHMENT STORAGE LOAD/PROGRAM
01=DELETE ATTACHMENT STORAGE LOAD/PROGRAM
02=ADD DEVICE ADDRESS DATA
03=DELETE DEVICE ADDRESS DATA
04=PATCH EXISTING ATTACHMENT STORAGE PROGRAM
05=LIST LOAD/PROGRAM DEVICE ADDRESS
06=LOAD ATTACHMENT STORAGE PROGRAM INTO STORAGE
07=COMPRESS ATTACHMENT STORAGE SYSTEM DISKETTE
08=OPTION MENU PRINT CONTROL
09=TERMINATE
SELECT ONE OPTION
ENTER
PROGRAMMER CONSOLE WILL STOP WITH 3A82 IN LIGHTS.

```

- C) SELECT DESIRED OPTION
 USE ALTERNATE CONSOLE TO ENTER
 FXX
 OR ENTER ON THE PROGRAMMER CONSOLE
 (B) IF (I)
 (B) XX00 (I)(I)

AT THIS TIME SPECIFIC PROCEDURES FOR EACH OPTION MUST BE FOLLOWED. ALL OPERATOR INPUT WILL USE THE DCP COMMAND 'F' (REPLY TO PROGRAM) EXCEPT WHEN A QUESTION (?) IS ANSWERED. USE DCP COMMAND 'I' FOR YES OR DCP COMMAND '0' FOR NO.

FOR COMMAND/DATA ENTRY FROM THE PROGRAMMER'S CONSOLE SEE MAP 0010 SECTION 07.01.00.

IN THE FOLLOWING EXAMPLES THE DATA TO BE ENTERED BY THE OPERATOR WILL BE FOLLOWED BY **.

IN THE FOLLOWING EXAMPLES XXXX = THE MESSAGE NUMBER SEEN IN THE PROGRAMMER CONSOLE LIGHTS.

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04.00 MENU OF OPTIONS:

THE FOLLOWING IS A PRINTOUT OF THE OPTION TABLE.

```

ATTACHMENT STORAGE PROGRAM SYSTEM UTILITY OPTION MENU
00=ADD ATTACHMENT STORAGE LOAD/PROGRAM
01=DELETE ATTACHMENT STORAGE LOAD/PROGRAM
02=ADD DEVICE ADDRESS DATA
03=DELETE DEVICE ADDRESS DATA
04=PATCH EXISTING ATTACHMENT STORAGE PROGRAM
05=LIST LOAD/PROGRAM DEVICE ADDRESSES
06=LOAD ATTACHMENT STORAGE PROGRAM INTO STORAGE
07=COMPRESS ATTACHMENT STORAGE SYSTEM DISKETTE
08=OPTION MENU PRINT CONTROL
09=TERMINATE
SELECT ONE OPTION
ENTER (LIGHTS 3A82)

```

04.01 OPTION 00:

THIS OPTION IS USED TO LOAD A ATTACHMENT STORAGE LOAD/PROGRAM ON THE DISKETTE. ENTER 'F00' TO SELECT THIS OPTION. THE UTILITY WILL PROMPT FOR INFORMATION. THE FIRST QUESTION WILL BE 'DEVICE ADDRESS=' ANSWER THIS QUESTION WITH THE DEVICE ADDRESS (00-FF) OF THE DEVICE YOU DESIRE THE OPTION TO USE.

THE FOLLOWING IS AN EXAMPLE:

```

SELECT ONE OPTION
ENTER (LIGHTS 3A82)
F00 **

(FROM DISKETTE) DEVICE ADDRESS=
ENTER (LIGHTS 3A84)
F22 **

ADD ATTACHMENT STORAGE LOAD/PROGRAM
IS - FROM DISKETTE LOADED?
ENTER (LIGHTS 3A86)
1 **

IS - TO - DISKETTE LOADED?
ENTER (LIGHTS 3A87)
1 **

RAM45 PROGRAM PN=01234567 EC/REA=8901234 ADDED TO DISKETTE

```

04.02 OPTION 01:

THIS OPTION IS USED TO DELETE A ATTACHMENT STORAGE LOAD/PROGRAM FROM THE DISKETTE. ENTER 'F01' TO SELECT THIS OPTION. THE UTILITY WILL PROMPT FOR THE FOLLOWING INFORMATION: PART NUMBER AND EC OR REA NUMBER. YOU MUST ENTER EIGHT (8) DIGITS FOR THE PART NUMBER AND SEVEN (7) DIGITS FOR THE EC OR REA NUMBER. IF THE PART NUMBER DOES NOT CONTAIN EIGHT (8) DIGITS OR THE EC OR REA NUMBER DOES NOT CONTAIN SEVEN (7) DIGITS, THEN IT MUST BE RIGHT ALIGNED.

THE FOLLOWING IS AN EXAMPLE:

```

SELECT ONE OPTION
ENTER (LIGHTS 3A82)
F01 **

DELETE ATTACHMENT STORAGE LOAD/PROGRAM
LOAD/PROGRAM PN=
ENTER (LIGHTS 3A89)
F01234567 **

LOAD/PROGRAM EC/REA=
ENTER (LIGHTS 3A8A)
F8901234 **

LOAD/PROGRAM PN=01234567 EC/REA=8901234 DELETED

```

02FEB81 PN6847171
EC869592 PEC864728
MAP 0026-4

PAGE 5 OF 18

04.03 OPTION 02:

THIS OPTION ADDS DEVICE ADDRESSES WHICH WILL RECEIVE A SPECIFIC LOAD/PROGRAM. ENTER 'F02' TO SELECT THIS OPTION. THE UTILITY WILL PROMPT FOR THE FOLLOWING INFORMATION: LOAD/PROGRAM PART NUMBER, LOAD/PROGRAM EC OR REA NUMBER, AND DEVICE ADDRESS. YOU MUST ENTER EIGHT (8) DIGITS FOR THE PART NUMBER AND SEVEN (7) DIGITS FOR THE EC OR REA NUMBER. IF THE PART NUMBER DOES NOT CONTAIN EIGHT (8) DIGITS OR THE EC OR REA NUMBER DOES NOT CONTAIN SEVEN (7) DIGITS, THEN IT MUST BE RIGHT ALIGNED.

THE FOLLOWING IS AN EXAMPLE:

```

SELECT ONE OPTION
ENTER (LIGHTS 3A82)
F02 **

SYSTEM (TO DISKETTE) WILL USE IPL ADDRESS XX
ADD DEVICE ADDRESS DATA
LOAD/PROGRAM PN=
ENTER (LIGHTS=3A89)
F12345678 **

LOAD/PROGRAM EC/REA=
ENTER (LIGHTS=3A8A)
F2468246 **

DEVICE ADDRESS=
ENTER (LIGHTS=3A8C)
F04 **

ADDRESS 04 ADDED
ADD ANOTHER ADDRESS TO PN=12345678 EC/REA=2468246?
ENTER (LIGHTS=3A8E)
0 **

```

IF THE DEVICE ADDRESS IS ALREADY IN USE IN THE SAME LOAD/PROGRAM THE FOLLOWING MESSAGE WILL PRINT:

```

ADDRESS 04 IN USE PN=PNNPNPN EC/REA=ECECECE
CAN NOT BE ADDED TWICE TO SAME LOAD/PROGRAM

```

IF THE DEVICE ADDRESS IS ALREADY IN USE IN ANOTHER LOAD/PROGRAM THE FOLLOWING MESSAGE WILL PRINT:

```

ADDRESS 04 IN USE PN=PNNPNPN EC/REA=ECECECE
CONTINUE TO ADD DUPLICATE DEVICE ADDRESS?
ENTER (LIGHTS=3A9C)
1 **

```

04.04 OPTION 03:

THIS OPTION IS USED TO DELETE DEVICE ADDRESS DATA FROM A SPECIFIC LOAD/PROGRAM. ENTER 'F03' TO SELECT THIS OPTION. THE UTILITY WILL PROMPT FOR THE FOLLOWING INFORMATION: DEVICE ADDRESS, LOAD/PROGRAM PART NUMBER, AND LOAD/PROGRAM EC OR REA NUMBER. YOU MUST ENTER EIGHT (8) DIGITS FOR THE PART NUMBER AND SEVEN (7) DIGITS FOR THE EC OR REA NUMBER. IF THE PART NUMBER DOES NOT CONTAIN EIGHT (8) DIGITS OR THE EC OR REA NUMBER DOES NOT CONTAIN SEVEN (7) DIGITS, THEN IT MUST BE RIGHT ALIGNED.

THE FOLLOWING IS AN EXAMPLE:

```

SELECT ONE OPTION
ENTER (LIGHTS 3A82)
F03 **

SYSTEM (TO DISKETTE) WILL USE IPL ADDRESS XX
DELETE DEVICE ADDRESS DATA
LOAD/PROGRAM PN=
ENTER (LIGHTS=3A89)
F12345678 **

LOAD/PROGRAM EC/REA=
ENTER (LIGHTS=3A8A)
F2468246 **

DEVICE ADDRESS=
ENTER (LIGHTS=3A8C)
F04 **

DELETE ANOTHER ADDRESS FROM PN=12345678 EC/REA=2468246?
ENTER (LIGHTS=3A90)
0 **

```

IF THE DEVICE ADDRESS IS NOT FOUND IN THIS LOAD PROGRAM, THE FOLLOWING MESSAGE WILL PRINT:

```

ADDRESS 04 NOT FOUND (LIGHTS 3AAB)

```

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04.05 OPTION 04:

THIS OPTION WILL PATCH AN EXISTING ATTACHMENT STORAGE PROGRAM. ENTER 'F04' TO SELECT THIS OPTION. YOU MUST ENTER EIGHT (8) DIGITS FOR THE PART NUMBER AND SEVEN (7) DIGITS FOR THE EC OR REA NUMBER. IF THE PART NUMBER DOES NOT CONTAIN EIGHT (8) DIGITS OR THE EC OR REA NUMBER DOES NOT CONTAIN SEVEN (7) DIGITS, THEN IT MUST BE RIGHT ALIGNED.

THE FOLLOWING IS AN EXAMPLE:

SELECT ONE OPTION
ENTER (LIGHTS 3A82)
F04 **

SYSTEM (TO DISKETTE) WILL USE IPL DEVICE ADDRESS 02
PATCH EXISTING ATTACHMENT STORAGE LOAD/PROGRAM
LOAD/PROGRAM PN=
ENTER (LIGHTS 3A89)
F12345678 **

LOAD/PROGRAM EC/REA=
ENTER (LIGHTS 3A8A)
F9012345 **

DO YOU WANT TO PATCH THE LOADER?
ENTER (LIGHTS 3A97)
1 **

OFFSET IN HEX=
ENTER (LIGHTS 3A95)
F0124 **

WORD COUNT=
ENTER (LIGHTS 3A93)
F0003 **

0124 0018 68A2 0000
DO YOU WANT TO PATCH THIS DATA?
ENTER (LIGHTS 3A91)
1 **

DATA
ENTER (LIGHTS 3A94)
F1234 5678 **

DATA
ENTER (LIGHTS 3A94)
F90AB **

LOAD/PROGRAM PN=12345678 EC/REA=9012345 PATCH COMPLETE

02FEB81 PN6847171

EC869592 PEC864728

MAP 0026-6

04.06 OPTION 05:

THIS OPTION WILL LIST THE LOAD/PROGRAMS ON THE DISKETTE AND THEIR DEVICE ADDRESSES. ENTER 'F05' TO SELECT THIS OPTION.

NAME	PN#	EC/REA#	ADDRESSES
			DA DA DA DA DA DA DA DA
			DA DA DA DA DA DA DA DA

THIS IS AN EXAMPLE OF THE PRINTOUT FROM OPTION 05 LIST LOAD/PROGRAM DEVICE ADDRESSES.

SELECT ONE OPTION
 ENTER (LIGHTS 3A82)
 F05 **

SYSTEM (TO DISKETTE) WILL USE IPL DEVICE ADDRESS 02
 LIST ATTACHMENT STORAGE LOAD/PROGRAM DEVICE ADDRESSES

NAME	PN#	EC/REA#	ADDRESSES
LP2567	12345678	9012345	80 88 84
LP3567	01234567	0234567	FF FE FD FC FE EE DD CC
LP4567	00123456	0345678	AA 99
			00 09 02 10 31 22 13 23
			14 24 29 53 44 48 50 60
			68 70

ALL LOAD/PROGRAMS LISTED

04.07 OPTION 06:

THIS OPTION WILL LOAD A LOAD/PROGRAM FROM THE DISKETTE INTO THE PROCESSING UNIT STORAGE AT A SELECTED LOCATION. YOU MUST ENTER EIGHT (8) DIGITS FOR THE PART NUMBER AND SEVEN (7) DIGITS FOR THE EC OR REA NUMBER. IF THE PART NUMBER DOES NOT CONTAIN EIGHT (8) DIGITS OR THE EC OR REA NUMBER DOES NOT CONTAIN SEVEN (7) DIGITS, THEN IT MUST BE RIGHT ALIGNED.

THE FOLLOWING IS AN EXAMPLE:

SELECT ONE OPTION
 ENTER (LIGHTS 3A82)
 F06 **

LOAD ATTACHMENT STORAGE PROGRAM INTO STORAGE
 STORAGE ADDRESS=
 ENTER (LIGHTS 3A9A)
 F2100 **

LOAD/PROGRAM PN=
 ENTER (LIGHTS 3A89)
 F23456789 **

LOAD/PROGRAM EC/REA=
 ENTER (LIGHTS 3A8A)
 F9012345 **

LOAD/PROGRAM PN=23456789 EC/REA=9012345 IS AT ADDRESS 2100

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04.08 OPTION 07:

THIS OPTION WILL COMPRESS THE DATA SETS ON THE DISKETTE THAT IS LOADED ON THE IPL DEVICE. TO USE THIS OPTION, ENTER 'F05'. THE UTILITY WILL COMPRESS THE VTOC FIRST, REMOVING ALL ENTRIES THAT HAD BEEN DELETED, THEN THE DATA SETS WILL ALL BE MOVED TO USE THE AREAS THAT HAVE BEEN DELETED.

NOTE: WHILE THIS OPTION IS EXECUTING A RECORD NUMBER WILL BE DISPLAYED IN THE DATA LAMPS. THE DISPLAY IN THE LAMPS IS ONLY TO LET THE OPERATOR KNOW THE OPTION IS EXECUTING.

THE FOLLOWING IS AN EXAMPLE:

```
SELECT ONE OPTION
ENTER (LIGHTS 3A82)
F07 **
```

```
COMPRESS ATTACHMENT STORAGE SYSTEM DISKETTE
COMPRESS COMPLETE (LIGHTS 3A85)
```

04.09 OPTION 08:

THIS OPTION WILL CONTROL THE DISPLAYING OF THE OPTION MENU EACH TIME. TO USE THIS OPTION, ENTER 'F08'. THE UTILITY WILL OUTPUT THE OPTION MENU EACH TIME AN OPTION IS COMPLETED. WHEN THIS OPTION IS SELECTED THE OPTION MENU WILL NOT BE DISPLAYED BUT A MESSAGE 'SELECT ONE OPTION' WILL APPEAR. ENTER 'F08' AGAIN WILL CAUSE THE OPTION MENU TO START DISPLAYING AGAIN. THIS OPTION IS USED IN MOST EXAMPLES.

THE FOLLOWING IS AN EXAMPLE:

```
ATTACHMENT STORAGE PROGRAM SYSTEM UTILITY OPTIONS
00=ADD ATTACHMENT STORAGE LOAD/PROGRAM
01=DELETE ATTACHMENT STORAGE LOAD/PROGRAM
02=ADD DEVICE ADDRESS DATA
03=DELETE DEVICE ADDRESS DATA
04=PATCH EXISTING ATTACHMENT STORAGE PROGRAM
05=LIST LOAD/PROGRAM DEVICE ADDRESSES
06=LOAD ATTACHMENT STORAGE PROGRAM INTO STORAGE
07=COMPRESS ATTACHMENT STORAGE SYSTEM DISKETTE
08=OPTION MENU PRINT CONTROL
09=TERMINATE
SELECT ONE OPTION
ENTER (LIGHTS 3A82)
F08 **
```

```
SELECT ONE OPTION
ENTER (LIGHTS 3A82)
F08 **
```

```
ATTACHMENT STORAGE PROGRAM SYSTEM UTILITY OPTIONS
00=ADD ATTACHMENT STORAGE LOAD/PROGRAM
01=DELETE ATTACHMENT STORAGE LOAD/PROGRAM
02=ADD DEVICE ADDRESS DATA
03=DELETE DEVICE ADDRESS DATA
04=PATCH EXISTING ATTACHMENT STORAGE PROGRAM
05=LIST LOAD/PROGRAM DEVICE ADDRESSES
06=LOAD ATTACHMENT STORAGE PROGRAM INTO STORAGE
07=COMPRESS ATTACHMENT STORAGE SYSTEM DISKETTE
08=OPTION MENU PRINT CONTROL
09=TERMINATE
SELECT ONE OPTION
ENTER (LIGHTS 3A82)
```

04.10 OPTION 09:

THIS OPTION WILL CAUSE THE UTILITY PROGRAM TO BE TERMINATED. TO USE THIS OPTION, ENTER 'F09'. THIS OPTION WILL NOT EXECUTE WHILE ANOTHER OPTION IS BEING EXECUTED.

THE FOLLOWING IS AN EXAMPLE:

```
SELECT ONE OPTION
ENTER (LIGHTS 3A82)
F09 **
PT
RDY
ENTER
```

02FEB81 PN6847171

EC869592 PEC864728

MAP 0026-8

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05.00 HALT CODES FOR MESSAGES: (NORMAL AND ERROR MESSAGES)- NO ALTERNATE CONSOLE
 IF YOU HAVE ANY PROBLEM WITH ENTRY, PRESS SYSTEM RESET AND START OVER. SEE SECTION 6.0 FOR
 MESSAGE DESCRIPTIONS.

PROGRAMMER OR C E CONSOLE DATA LAMPS MESSAGES.

PROGRAM STOPS FOR CE USE IN DIAGNOSE OPERATION

MESSAGES WHICH NEED A RESPONSE ARE INDICATED BY **.

- A. THOSE ENDING IN A QUESTION MARK (?) NEED A YES (COMMAND '1')
 OR NO (COMMAND '0') RESPONSE.
 B. ALL OTHERS NEED DATA (F) RESPONSE.

CODE	IN	MESSAGE AND COMMENTS
ICA6		DISKETTE ERROR
ICAA		PREPARE OPERATION - BAD CONDITION CODE
ICAF		READ ID OPERATION - BAD CONDITION CODE
ICB2		READ ID DATA ERROR
ICB6		WRITE ATTACHMENT STORAGE TO ATTACHMENT - BAD CONDITION CODE
ICBA		WRITE ATTACHMENT STORAGE TO ATTACHMENT - BAD INTERRUPT CONDITION CODE
ICCO		WRITE ATTACHMENT STORAGE TO ATTACHMENT - READ BACK COMPARE BAD
3A80		ATTACHMENT STORAGE PROGRAM PN= EC/REA=
3A81		DA= LOADED
3A82		00=ADD ATTACHMENT STORAGE LOAD/PROGRAM
3A82		01=DELETE ATTACHMENT STORAGE LOAD/PROGRAM
3A82		02=ADD DEVICE ADDRESS DATA
3A82		03=DELETE DEVICE ADDRESS DATA
3A82		04=PATCH EXISTING ATTACHMENT STORAGE PROGRAM
3A82		05=LIST LOAD/PROGRAM DEVICE ADDRESS
3A82		06=LOAD ATTACHMENT STORAGE PROGRAM INTO STORAGE
3A82		07=COMPRESS ATTACHMENT STORAGE SYSTEM DISKETTE
3A82		08=OPTION MENU PRINT CONTROL
3A82		09=TERMINATE
3A82	**	SELECT ONE OPTION
3A83	**	SYSTEM (TO DISKETTE) WILL USE IPL DEVICE ADDRESS XX POS 1
3A84	**	(FROM DISKETTE) DEVICE ADDRESS=
3A84	**	FROM DISKETTE WILL USE POS 1
3A84	**	FROM DISKETTE WILL USE POS 2
3A85	**	COMPRESS COMPLETE
3A86	**	IS - FROM - DISKETTE LOADED?
3A87	**	IS - TO - DISKETTE LOADED?
3A88	**	LP PROGRAM PN= EC/REA= ADDED TO DISKETTE
3A89	**	LOAD/PROGRAM PN=
3A8A	**	LOAD/PROGRAM EC/REA=
3A8B	**	LOAD/PROGRAM PN= EC/REA= DELETED
3A8C	**	DEVICE ADDRESS=
3A8D	**	ADDRESS ADDED
3A8E	**	ADD ANOTHER ADDRESS TO PN= EC/REA= ?
3A8F	**	ADDRESS DELETED
3A90	**	DELETE ANOTHER ADDRESS FROM PN= EC/REA= ?
3A91	**	DO YOU WANT TO PATCH THIS DATA?
3A92	**	LOAD/PROGRAM PN= EC/REA= PATCH COMPLETE
3A93	**	WORD COUNT=
3A94	**	DATA
3A95	**	OFFSET IN HEX=
3A96	**	OFFSET DATA DATA DATA DATA DATA DATA DATA
3A97	**	DO YOU WANT TO PATCH THE LOADER?
3A98	**	NAME PN# EC/REA# ADDRESSES
3A98	**	LP DA DA DA DA DA DA DA DA
3A99	**	ALL LOAD/PROGRAMS LISTED
3A9A	**	STORAGE ADDRESS=
3A9B	**	LOAD/PROGRAM PN= EC/REA= IS AT ADDRESS
3A9C	**	CONTINUE TO ADD DUPLICATE DEVICE ADDRESS?
3A9D	**	CAN NOT BE ADDED TWICE TO SAME LOAD/PROGRAM
3A9E	**	---- NOT USED
3A9F	**	---- NOT USED

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CODE	IN	MESSAGE AND COMMENTS
3AA0		PROGRAM NOT FOUND - DISKETTE ERROR OR WRONG DISKETTE
3AA1		DISKETTE ERROR
3AA2		DA= NOT LOADED
3AA3		NO LOAD/PROGRAMS ON SYSTEM DISKETTE
3AA4		ENTRY NOT VALID
3AA5		DISKETTE FULL -- COMPRESS DISKETTE USE 'U38F9'
3AA6		VTOC FULL -- COMPRESS DISKETTE USE 'U38F9'
3AA7		LP PROGRAM PN= EC/REA= ALREADY ON DISKETTE
3AA8		WRONG DISKETTE IN DRIVE
3AA9		LOAD/PROGRAM PN= EC/REA= NOT FOUND
3AAA		ADDRESS IN USE PN= EC/REA=
3AAB		ADDRESS NOT FOUND
3AAC		WORD COUNT ERROR
3AAD		WORD COUNT TOO LARGE
3AAE		OFFSET TOO LARGE
3AAF		---- NOT USED
3AB0		LOAD/PROGRAM WILL NOT FIT INTO STORAGE AT ADDRESS
3AB1		ADDRESS LARGER THAN STORAGE SIZE
3AB2		ADDRESS MUST BE 2000 OR LARGER
3AB3		---- NOT USED
3AB4		---- NOT USED
3AB5		---- NOT USED
3AB6		---- NOT USED
3AB7		---- NOT USED
3AB8		---- NOT USED
3AB9		---- NOT USED
3ABA		---- NOT USED
3ABB		---- NOT USED
3ABC		---- NOT USED
3ABD		---- NOT USED
3ABE		---- NOT USED
3ABF		---- NOT USED
3AF0		ATTACHMENT STORAGE PROGRAM UTILITY PROGRAM
3AF1		ATTACHMENT STORAGE PROGRAM WRITE TO ATTACHMENT PROGRAM
3AF2		**
3AF3		ATTACHMENT STORAGE PROGRAM SYSTEM UTILITY OPTION MENU
3AF4		COMPRESS ATTACHMENT STORAGE SYSTEM DISKETTE
3AF5		ADD ATTACHMENT STORAGE LOAD/PROGRAM
3AF6		DELETE ATTACHMENT STORAGE LOAD/PROGRAM
3AF7		ADD DEVICE ADDRESS DATA
3AF8		DELETE DEVICE ADDRESS DATA
3AF9		PATCH EXISTING ATTACHMENT STORAGE LOAD/PROGRAM
3AFA		LIST ATTACHMENT STORAGE LOAD/PROGRAM/DEVICE ADDRESSES
3AFB		LOAD ATTACHMENT STORAGE PROGRAM INTO STORAGE
3AFC		WRITE ATTACHMENT STORAGE PROGRAM TO ATTACHMENT
3AFD		---- NOT USED
3AFE		---- NOT USED
3AFF		---- NOT USED

* TO ENTER FOUR CHARACTERS: (B),I,F,(I),(B),X,X,X,X,(I),(I)

** TO ENTER TWO CHARACTERS: (B),I,F,(I),(B),X,X,0,0,(I),(I)

THE CODES ARE DESCRIBED IN MORE DETAIL IN SECTION 6.0.

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06.00 HALT CODE MESSAGES AND REQUIRED ACTIONS:

IF YOU HAVE ANY PROBLEM WITH ENTRY, PRESS SYSTEM RESET AND START OVER. THE HALT CODES ARE DESCRIBED BELOW.

THE FOLLOWING HALT CODES ARE NOT MESSAGE STOPS. THESE STOPS WILL OCCUR ONLY WHEN THERE IS AN ERROR WHEN LOADING A ATTACHMENT STORAGE PROGRAM. THE MODE SWITCH MUST BE ON 'DIAGNOSE' FOR THESE STOPS TO OCCUR.

CODE 1CA6: DISKETTE ERROR
 REGISTER 3 - DEVICE ADDRESS

CODE 1CAA: PREPARE OPERATION - BAD CONDITION CODE
 REGISTER 3 - DEVICE ADDRESS
 REGISTER 4 - LEVEL STATUS REGISTER CONTENTS

CODE 1CAE: READ ID OPERATION - BAD CONDITION CODE
 REGISTER 3 - DEVICE ADDRESS
 REGISTER 4 - LEVEL STATUS REGISTER CONTENTS

CODE 1CB2: READ ID DATA ERROR
 REGISTER 3 - DEVICE ADDRESS
 REGISTER 4 - READ ID RECEIVED
 REGISTER 5 - READ ID EXPECTED
 REGISTER 6 - MASK. THIS IS USED TO MASK OUT BITS IN RECEIVED READ IDENTIFICATION BEFORE COMPARE WITH THE EXPECTED IDENTIFICATION.

CODE 1CB6: WRITE ATTACHMENT STORAGE TO ATTACHMENT - BAD CONDITION CODE
 REGISTER 3 - DEVICE ADDRESS
 REGISTER 4 - LEVEL STATUS REGISTER CONTENTS

CODE 1CBA: WRITE ATTACHMENT STORAGE TO ATTACHMENT - BAD INTERRUPT CONDITION CODE
 REGISTER 3 - DEVICE ADDRESS
 REGISTER 4 - LEVEL STATUS REGISTER CONTENTS

CODE 1CC0: WRITE ATTACHMENT STORAGE TO ATTACHMENT - READ BACK COMPARE BAD
 REGISTER 3 - DEVICE ADDRESS
 REGISTER 4 - LEVEL STATUS REGISTER CONTENTS

THE FOLLOWING HALT CODES WILL OCCUR ON THE PROGRAMMER CONSOLE, OR THE MESSAGES WILL PRINT ON THE ALTERNATE CONSOLE.

CODE 3A80: ATTACHMENT STORAGE PROGRAM PN= EC/REA= --

CODE 3A81: DA= LOADED

CODE 3A82: 00=ADD ATTACHMENT STORAGE LOAD/PROGRAM
 01=DELETE ATTACHMENT STORAGE LOAD/PROGRAM
 02=ADD DEVICE ADDRESS DATA
 03=DELETE DEVICE ADDRESS DATA
 04=PATCH EXISTING ATTACHMENT STORAGE PROGRAM
 05=LIST LOAD/PROGRAM DEVICE ADDRESS
 06=LOAD ATTACHMENT STORAGE PROGRAM INTO STORAGE
 07=COMPRESS ATTACHMENT STORAGE SYSTEM DISKETTE
 08=OPTION MENU PRINT CONTROL
 09=TERMINATE
 SELECT ONE OPTION
 SELECT THE OPTION DESIRED. FOR EXAMPLE, IF YOU SELECT OPTION 01, ENTER 'F01'.

CODE 3A83: SYSTEM (TO DISKETTE) WILL USE IPL DEVICE ADDRESS XX POS 1
 XX = THE DEVICE ADDRESS OF THE TO DISKETTE.
 IF A 4966 IS USED, THIS MESSAGE DESCRIBES THE POSITION THE TO DISKETTE WILL USE.

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CODE 3A84: (FROM DISKETTE) DEVICE ADDRESS=XX
FROM DISKETTE WILL USE POS 1
FROM DISKETTE WILL USE POS 2
XX = THE DEVICE ADDRESS OF THE FROM DISKETTE.
IF A 4966 IS USED, THIS MESSAGE DESCRIBES THE
POSITION THE FROM DISKETTE WILL USE.

CODE 3A85: COMPRESS COMPLETE

CODE 3A86: IS - FROM - DISKETTE LOADED?
ANSWER YES (COMMAND '1') WHEN THE FROM DISKETTE IS READY IN
THE DISKETTE DRIVE.
** ENTER AS (0) OR (1).

CODE 3A87: IS - TO - DISKETTE LOADED?
ANSWER YES (COMMAND '1') WHEN THE TO DISKETTE IS READY IN
THE DISKETTE DRIVE.
** ENTER AS (0) OR (1).

CODE 3A88: LP PROGRAM PN= EC/REA= ADDED TO DISKETTE

CODE 3A89: LOAD/PROGRAM PN=
ANSWER WITH THE LOAD/PROGRAM PART NUMBER.
EIGHT (8) DIGITS MUST BE ENTERED. IF THE PART
NUMBER HAS ONLY SEVEN (7) DIGITS, ENTER A ZERO IN
FRONT SO THAT THE PART NUMBER IS RIGHT ALIGNED.
** ENTER AS (F).

CODE 3A8A: LOAD/PROGRAM EC/REA=
ANSWER WITH THE LOAD/PROGRAM EC OR REA NUMBER.
SEVEN (7) DIGITS MUST BE ENTERED. IF THE EC OR REA NUMBER
HAS ONLY SIX (6) DIGITS, ENTER A ZERO IN FRONT
SO THAT THE EC OR REA NUMBER IS RIGHT ALIGNED.
** ENTER AS (F).

CODE 3A8B: LOAD/PROGRAM PN= EC/REA= DELETED
INDICATES THAT THE LOAD/PROGRAM HAS BEEN DELETED
FROM THE DISKETTE.

CODE 3A8C: DEVICE ADDRESS=
ANSWER WITH THE DEVICE ADDRESS.
** ENTER AS (F).

CODE 3A8D: ADDRESS ADDED
INDICATES THAT THE DEVICE ADDRESS HAS BEEN ADDED
TO THE LOAD/PROGRAM.

CODE 3A8E: ADD ANOTHER ADDRESS TO PN= EC/REA= ?
ANSWER IF YOU WANT TO CONTINUE ADDING DEVICE ADDRESSES
TO THIS LOAD/PROGRAM.
** ENTER AS (0) OR (1).

CODE 3A8F: ADDRESS DELETED
INDICATES THAT THE DEVICE ADDRESS HAS BEEN DELETED
FROM THE LOAD/PROGRAM.

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CODE 3A90: DELETE ANOTHER ADDRESS FROM PN= EC/REA= ?
ANSWER YES (COMMAND '1') IF YOU WANT TO DELETE ANOTHER ADDRESS FROM THIS LOAD/PROGRAM. ANSWER NO (COMMAND '0') IF YOU DO NOT WANT TO DELETE ANOTHER ADDRESS.
** ENTER AS (0) OR (1).

CODE 3A91: DO YOU WANT TO PATCH THIS DATA?
CHECK IF THIS IS THE CORRECT DATA TO CHANGE. (OPTION 04)
IF IT IS, ANSWER YES (1).
IF IT IS NOT, ANSWER NO (0).
** ENTER AS (0) OR (1).

CODE 3A92: LOAD/PROGRAM PN= EC/REA= PATCH COMPLETE

CODE 3A93: WORD COUNT=
NUMBER OF WORDS TO BE CHANGED. (OPTION 04)
** ENTER AS (F).

CODE 3A94: DATA

CODE 3A95: OFFSET IN HEX=XXXX
XXXX = THE HEXADECIMAL BYTE OFFSET INTO THE LOAD/PROGRAM WHERE THE CHANGE WILL START. (OPTION 04)
THE OFFSET MUST BE A BYTE COUNT ON A WORD BOUNDARY.
** ENTER AS (F).

CODE 3A96: XXXX YYYY YYY YYY YYY YYY YYY YYY YYY
XXXX = THE OFFSET INTO THE LOAD/PROGRAM.
YYYY = THE DATA AT OFFSET XXXX.

CODE 3A97: DO YOU WANT TO PATCH THE LOADER?
SELECT TO PATCH THE LOADER OR THE ATTACHMENT STORAGE PROGRAM.
** ENTER (0) TO PATCH THE LOADER.
** ENTER (1) TO PATCH THE ATTACHMENT STORAGE PROGRAM.

CODE 3A98:

NAME	PN#	EC/REA#	ADDRESSES
LP			DA DA DA DA DA DA DA DA DA DA DA DA DA DA DA DA

THIS IS AN EXAMPLE OF THE PRINTOUT FROM OPTION 05, LIST ATTACHMENT STORAGE LOAD/PROGRAM DEVICE ADDRESSES.

CODE 3A99: ALL LOAD/PROGRAMS LISTED
INDICATES THAT ALL OF THE LOAD/PROGRAMS HAVE BEEN LISTED BY OPTION 05.

CODE 3A9A: STORAGE ADDRESS=

CODE 3A9B: LOAD/PROGRAM PN= EC/REA= IS AT ADDRESS
THE ATTACHMENT STORAGE LOAD/PROGRAM HAS BEEN LOADED INTO STORAGE AT THE INDICATED ADDRESS.

CODE 3A9C: CONTINUE TO ADD DUPLICATE DEVICE ADDRESS?
ANSWER YES (COMMAND '1') IF YOU WANT TO CONTINUE ENTERING THIS DEVICE ADDRESS IN AN ADDITIONAL LOCATION.
ANSWER NO (COMMAND '0') IF NOT.
** ENTER AS (0) OR (1).

CODE 3A9D: CAN NOT BE ADDED TWICE TO SAME LOAD/PROGRAM
INDICATES THAT THE DEVICE ADDRESS BEING ADDED TO AN ATTACHMENT STORAGE LOAD/PROGRAM IS ALREADY THERE.
A DEVICE ADDRESS CAN NOT BE ADDED TWICE TO THE SAME ATTACHMENT STORAGE LOAD/PROGRAM.

CODE 3A9E: NOT USED

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CODE 3A9F: NOT USED

CODE 3AA0: PROGRAM NOT FOUND - DISKETTE ERROR OR WRONG DISKETTE

CODE 3AA1: DISKETTE ERROR

CODE 3AA2: DA= NOT LOADED
 A PROBLEM HAS OCCURRED THAT WOULD NOT PERMIT A
 ATTACHMENT STORAGE LOAD/PROGRAM TO BE LOADED INTO
 THE DEVICE AT THE INDICATED DEVICE ADDRESS.
 USE OPTION 05 ON THE ATTACHMENT STORAGE SYSTEM
 DISKETTE PART NUMBER TO CHECK WHICH
 LOAD/PROGRAM WOULD NOT LOAD.
 USE CONFIGURATION OPTION 09 ON THE BASIC
 DIAGNOSTIC DISKETTE PN=1635001 TO SEE WHAT
 DEVICE IS AT THIS DEVICE ADDRESS.

CODE 3AA3: NO LOAD/PROGRAMS ON SYSTEM DISKETTE
 OPTION 05, LIST LOAD/PROGRAM DEVICE ADDRESSES.
 THIS MESSAGE INDICATES THAT NO LOAD/PROGRAMS ARE
 NOW ON THE SYSTEM DISKETTE.

CODE 3AA4: ENTRY NOT VALID

CODE 3AA5: DISKETTE FULL -- COMPRESS DISKETTE USE 'U38F9'
 INDICATES THAT THERE IS NO MORE ROOM ON THE DISKETTE.
 COMPRESS THE DISKETTE WITH OPTION 07.

CODE 3AA6: VTOC FULL -- COMPRESS DISKETTE USE 'U38F9'
 INDICATES THAT THERE IS NO MORE ROOM ON THE DISKETTE.
 COMPRESS THE DISKETTE WITH OPTION 07.

CODE 3AA7: LP PROGRAM PN= EC/REA= ALREADY ON DISKETTE
 THE LOAD/PROGRAM THAT IS BEING LOADED ON THE SYSTEM DISKETTE
 IS ALREADY ON THE DISKETTE. IT CAN NOT BE LOADED TWICE ON THE
 SAME DISKETTE.

CODE 3AA8: WRONG DISKETTE IN DRIVE
 FIND THE CORRECT DISKETTE.

CODE 3AA9: LOAD/PROGRAM PN= EC/REA= NOT FOUND
 WRONG PN, EC, OR REA ENTERED OR THIS LOAD/PROGRAM HAS NOT
 BEEN ADDED TO THIS DISKETTE.

CODE 3AAA: ADDRESS IN USE PN= EC/REA=
 THE DEVICE ADDRESS BEING ADDED TO THE LOAD/PROGRAM IS
 ALREADY IN USE IN ANOTHER LOAD/PROGRAM.
 A DEVICE ADDRESS CAN ONLY BE IN USE IN ONE LOAD/PROGRAM.

CODE 3AAB: ADDRESS NOT FOUND
 THE DEVICE ADDRESS BEING DELETED FROM A LOAD/PROGRAM
 CAN NOT BE FOUND.
 USE OPTION 05 TO LOOK AT DEVICE ADDRESSES IN USE.

CODE 3AAC: WORD COUNT ERROR

CODE 3AAD: WORD COUNT TOO LARGE
 THE WORD COUNT ENTERED IS TOO LARGE.

CODE 3AAE: OFFSET TOO LARGE
 THE OFFSET SELECTED IS PAST THE END OF THE PROGRAM.
 ENTER THE CORRECT OFFSET.

CODE 3AAF: NOT USED

CODE 3AB0: LOAD/PROGRAM WILL NOT FIT INTO STORAGE AT ADDRESS

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SELECT AN ADDRESS BETWEEN HEXADECIMAL 2000 AND
THE END OF STORAGE.

CODE 3AB1: ADDRESS LARGER THAN STORAGE SIZE
SELECT ANOTHER ADDRESS INSIDE THE STORAGE SIZE
OF THE SYSTEM.

CODE 3AB2: ADDRESS MUST BE 2000 OR LARGER
SELECT AN ADDRESS OF HEXADECIMAL 2000 OR LARGER.

CODE 3AB3: NOT USED

CODE 3AB4: NOT USED

CODE 3AB5: NOT USED

CODE 3AB6: NOT USED

CODE 3AB7: NOT USED

CODE 3AB8: NOT USED

CODE 3AB9: NOT USED

CODE 3ABA: NOT USED

CODE 3ABB: NOT USED

CODE 3ABC: NOT USED

CODE 3ABD: NOT USED

CODE 3ABE: NOT USED

CODE 3ABF: NOT USED

CODE 3AF0: ATTACHMENT STORAGE PROGRAM UTILITY PROGRAM

CODE 3AF1: ATTACHMENT STORAGE PROGRAM WRITE TO ATTACHMENT PROGRAM

CODE 3AF2: **
ATTACHMENT STORAGE PROGRAM SYSTEM UTILITY OPTION MENU

CODE 3AF3: COMPRESS ATTACHMENT STORAGE SYSTEM DISKETTE

CODE 3AF4: ADD ATTACHMENT STORAGE LOAD/PROGRAM

CODE 3AF5: DELETE ATTACHMENT STORAGE LOAD/PROGRAM

CODE 3AF6: ADD DEVICE ADDRESS DATA

CODE 3AF7: DELETE DEVICE ADDRESS DATA

CODE 3AF8: PATCH EXISTING ATTACHMENT STORAGE LOAD/PROGRAM

CODE 3AF9: LIST ATTACHMENT STORAGE LOAD/PROGRAM DEVICE ADDRESSES

CODE 3AFA: LOAD ATTACHMENT STORAGE PROGRAM INTO STORAGE

CODE 3AFB: WRITE ATTACHMENT STORAGE PROGRAM TO ATTACHMENT

CODE 3AFC: NOT USED

CODE 3AFD: NOT USED

CODE 3AFE: NOT USED
CODE 3AFF: NOT USED

07.00 ATTACHMENT STORAGE SYSTEM DISKETTE FORMAT:

THE FOLLOWING IS THE DESCRIPTION OF THE ATTACHMENT STORAGE SYSTEM DISKETTE FORMAT:
 NOTE TRACK 0 (IPL TRACK) IS FORMATTED WITH 128 BYTES PER SECTOR AND 26 SECTORS PER TRACK.
 ALL OTHER TRACKS ARE FORMATTED WITH 256 BYTES PER SECTOR AND 15 SECTORS PER TRACK.

CYLINDER	START HEAD	END CYLINDER	HEAD	DESCRIPTION
0	0	0	1	IPL PROGRAM (3AA1)
1	0	3	1	DISKETTE DIAGNOSTIC TEST TRACKS
4	0	9	1	RESERVED
10	0	10	1	CONTROL PROGRAM (3A00)
11	0	11	1	VTOC (VOLUME TABLE OF CONTENTS)
12	0	73	1	PROBLEM PROGRAM SPACE ATTACHMENT STORAGE LOAD AND LOADER AS MANY AS NEEDED FOR A SYSTEM
74	0	76	1	DISKETTE DIAGNOSTIC TEST TRACKS

07.01 VTOC ENTRY FORMAT:

THE FOLLOWING IS THE FORMAT OF A VTOC ENTRY:

EACH ENTRY IS 32 BYTES IN LENGTH WITH 8 ENTRIES/SECTOR.

BYTES	DESCRIPTION
0-5	DATA SET NAME IN EBCDIC.
6-7	STARTING RECORD NUMBER OF THE PROGRAM .
8-9	ENDING RECORD NUMBER+1 OF THE PROGRAM .
10-11	RESERVED
12	TYPE OF DATA SET - 'P' PROGRAM DATA SET. - 'D' NOT EXECUTABLE DATA SET.
13-15	SEE 04.01. RESERVED.
16	PATCH COUNT (TIMES PROGRAM HAS HAD A PATCH).
17-24	PROGRAM PART NUMBER.
25-31	PROGRAM EC OR REA NUMBER.

07.02 CONFIGURATION TABLE ENTRY FORMAT:

FOR FORMAT OF THE CONFIGURATION TABLE (DATA SET 38F1) SEE MAP 3880 SECTION 08.01.04.

07.03 ATTACHMENT STORAGE LOADER AND LOAD FORMAT:

THE FOLLOWING IS THE FORMAT OF A DATA SET CONTAINING A ATTACHMENT STORAGE LOADER AND PROGRAM.

START AT CYLINDER 12 HEAD 0, AND GO THROUGH CYLINDER 74 HEAD 1.

SECTOR	DESCRIPTION
1	DEVICE ADDRESSES FOR THIS ATTACHMENT STORAGE LOADER AND PROGRAM
2	COMMUNJCATIONS TABLE AND ATTACHMENT STORAGE LOADER
3	ATTACHMENT STORAGE LOADER
4	ATTACHMENT STORAGE LOADER
5	ATTACHMENT STORAGE LOADER
6	ATTACHMENT STORAGE LOADER
7	ATTACHMENT STORAGE LOAD AS MANY SECTORS AS NEEDED FOR THIS PROGRAM

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08.00 ATTACHMENT STORAGE ONE SIDE DISKETTE FORMAT:

THE FOLLOWING IS THE DESCRIPTION OF THE ONE SIDE DISKETTE FORMAT:
 THIS DISKETTE IS FORMATTED 128 BYTES/SECTOR, 26 SECTORS/TRACK.
 THE FIRST SECTOR ON A TRACK IS NUMBER 1.

CYLINDER	HEAD	SECTOR	DESCRIPTION
0	0	1	IPL PROGRAM
0	0	2	IPL PROGRAM
0	0	3	IPL PROGRAM
0	0	4	IPL PROGRAM
0	0	5	IPL PROGRAM
0	0	6	IPL PROGRAM
0	0	7	VOLUME LABEL
0	0	8	HEADER LABEL 1
0	0	9	HEADER LABEL 2
0	0	10	HEADER LABEL 3
0	0	11	IPL PROGRAM
0	0	12	IPL PROGRAM
0	0	13	IPL PROGRAM
0	0	14	IPL PROGRAM
0	0	15	IPL PROGRAM
0	0	16	IPL PROGRAM
0	0	17	COMMUNICATION AREA
0	0	18	ATTACHMENT STORAGE LOADER PROGRAM
0	0	19	ATTACHMENT STORAGE LOADER PROGRAM
0	0	20	ATTACHMENT STORAGE LOADER PROGRAM
0	0	21	ATTACHMENT STORAGE LOADER PROGRAM
0	0	22	ATTACHMENT STORAGE LOADER PROGRAM
0	0	23	ATTACHMENT STORAGE LOADER PROGRAM
0	0	24	ATTACHMENT STORAGE LOADER PROGRAM
0	0	25	ATTACHMENT STORAGE LOADER PROGRAM
0	0	26	ATTACHMENT STORAGE LOADER PROGRAM
1	0	1	ATTACHMENT STORAGE LOAD (3 COPIES MAY TAKE UP TO 6 TRACKS.) (THE REMAINDER OF DISKETTE IS NOT USED.)

THREE COPIES OF THE ATTACHMENT STORAGE PROGRAM ARE ON THE DISKETTE. THEY ARE POINTED TO BY
 HEADER 1, HEADER 2, AND HEADER 3 RESPECTIVELY.
 THE REMAINDER OF THE DISKETTE IS NOT USED.

08.01 VOLUME LABEL:

THE VOLUME LABEL IS USED TO IDENTIFY THE VOLUME, THE OWN PERSON, THE SECURITY, AND THE
 SEQUENCE AND LENGTH OF THE PHYSICAL RECORDS ON THE TRACKS OF THE VOLUME. SEE IBM DISKETTE
 LABELS AND DATASET STRUCTURE IBM INTERDIVISIONAL STANDARD I-S 3-8010 105 1977-07 FOR THE
 FORMAT OF THIS RECORD.

08.02 HEADER LABEL:

THE HEADER LABEL IS USED TO IDENTIFY THE DATA SETS AND DESCRIBE THEIR LOCATION ON THE
 VOLUME. SEE IBM DISKETTE LABELS AND DATASET STRUCTURE IBM INTERDIVISIONAL STANDARD I-S
 3-8010 105 1977-07 FOR THE FORMAT OF THIS RECORD.