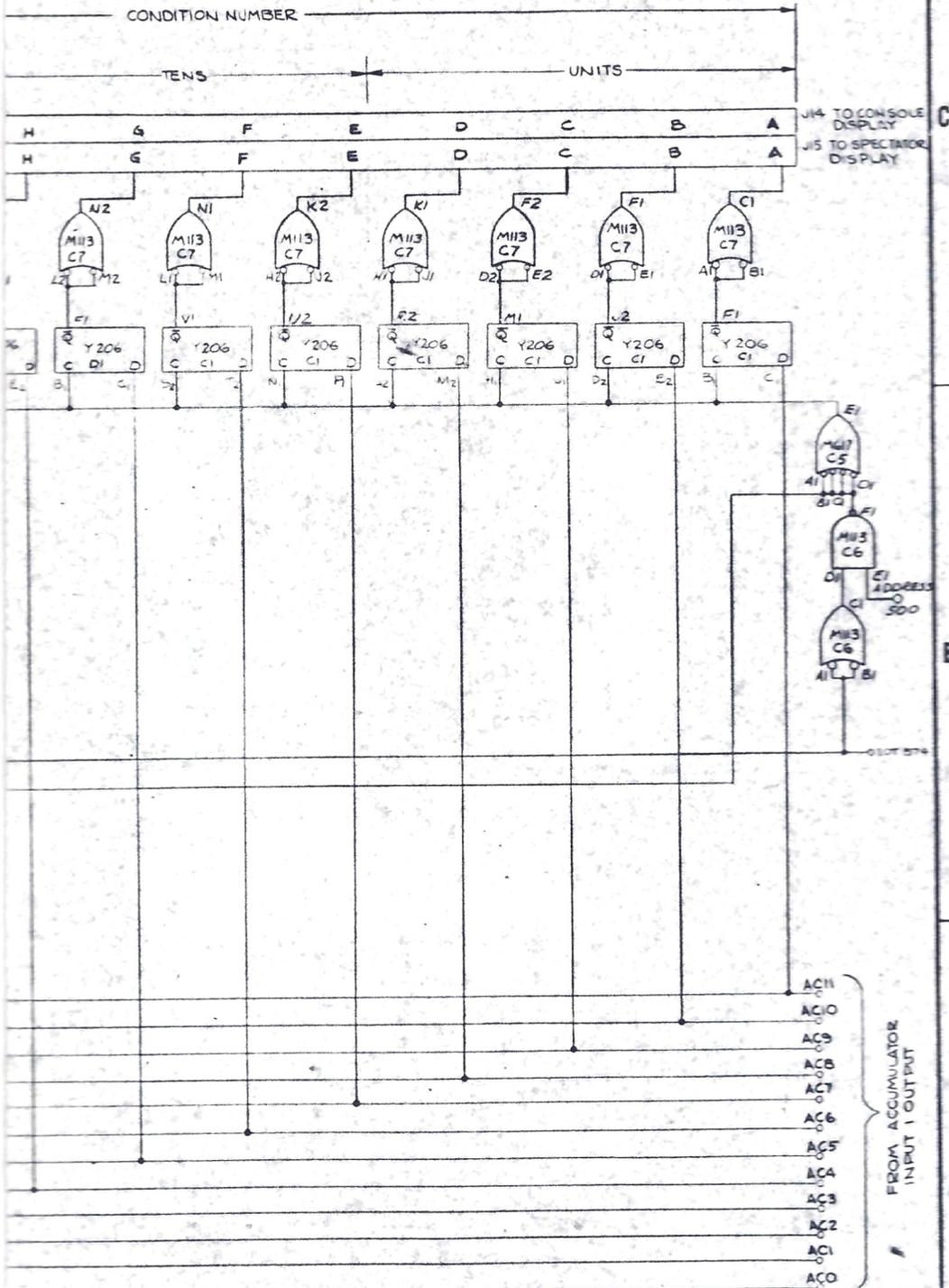


APPLICATION				REV LTR
NEXT ASSY	USED ON	SECT. NO	SERIAL NUMBER	PART NUMBER
64-31280			TEST ONLY	—

FOR COMPLETE LISTING SEE ACTIVE SHEET RECORD

DIMENSIONS ARE IN INCHES EXCEPT AS NOTED	CONTR		THE BOEING COMPANY AEROSPACE GROUP		SEATTLE, WASHINGTON	
	DR	JIM BASST 2-5-9				
	CHK	J. Bergen 5/15/4	SCHEMATICS - 747 MAJOR FATIGUE TEST INST. SYS.			
	STRUCT					
	ENGR		SIZE	CODE IDENT NO	64-31599	
EDTI	GR <i>[Signature]</i>	PROJ W.B. Harrison	A	81205		
CHANGE NO			SCALE	—	SHEET 1001	

RIVET SYMBOL CODE		SYM	ZONE	REVISIONS		DATE	APPROVAL
INSTL: STD. PER BAC 5004. FLUID TIGHT, PER BAC 5047							
BASIC CODE		DIA DASH NO		MFD HEAD LOC			
ENCLOSED = FLUID TIGHT		NF NEAR SIDE		F = FAR SIDE			
OPEN = STANDARD		SPOT WELD OPT		LENGTH DASH NO			
DIMPLE, CSK INFO		D = DIMPLE		2 = NO. SH DIMPLED			
C = CSK INSTRUCTURE		3 LINES: TOP = MFD NO; BOTTOM = DRIVEN HD					
NOTE: PROTRUDING HD RIVETS DRIVEN FLUSH		D, C INFO (2 LINES) APPLIES TO DRIVEN HD ONLY					
+ HOLE LOCATION FOR X DIAMETER RIVET							



FORM, PUNCH, STRAIGHTEN & FIT METAL PARTS PER BAC 5300
 MATERIALS SUBSTITUTION & DIMENSIONS PER BAC 5005
 SET MATERIALS SUBSTITUTIONS & MANUFACTURING PROCESSES PER DA-19736
 RIVET MARKING PER BAC 5307
 RIVET INSTL. & SYN PER BAC 5004
 SEE BACD 5087 FOR SURFACE BOUNDRINESS
 FOR FINISH CODES, SEE DOCUMENT B15-5000 & OR DA-5000

DIMENSIONING & TOLERANCING PER USAS Y14.5
 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES - DECIMALS - RIVET & BOLT EDGE MARGINS ± .05 SHEET METAL CORNER RADII INTERNAL .16 .19 EXTERNAL .22 .25 BEND RADII ± .01 ON .03 & .08 ± .03 ON .09 & GREATER

USED ON	DRAWN	DATE
SECT NO.	CHECKED	
CHG NO.	ENGR	
GROUP ORG	PROJ	
	EDT	

SEE SHEET 1 OR PL FOR LIST OF MATERIAL, USAGE AND NOTES
 THE **BOEING** COMPANY
 COMMERCIAL AIRPLANE DIVISION, RENTON, WASH.
SCHEMATIC - INTERFACE BUFFER (TEST ONLY)
 CODE IDENT NO: 81201
 SIZE: J
64-31599
 SCALE: NONE
 SH: 3423.2
 REV 6-13-5

REV 5/54
 3423.2
 64-31599

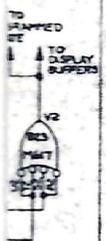
64-31200 2H 3453'S
 INTERFACE BUFFER

RIVET SYMBOL CODE		SYM ZONE	REVISIONS	DATE	APPROVAL
INSTL. STD. PER BAC 5004; FLUID TIGHT PER BAC 5047 BASIC CODE ENCLOSED = FLUID TIGHT OPEN = STANDARD DIMPLE CSK INFO: D = DIMPLE 1 = NO. SH DIMPLED 2 = CSK INSTRUCTURE 2 LINES: TOP = MFD NO; BOTTOM = DRIVEN NO NOTE: PROTRUDING HD RIVETS DRIVEN FLUSH D - C INFO (2 LINES) APPLIES TO DRIVEN HD ONLY + HOLE LOCATION FOR X DIAMETER RIVET					
DIA DASH NO. MFD HEAD LOC N = NEAR SIDE F = FAR SIDE SPOT WELD OPT LENGTH DASH NO.					

100M S.I.
STATUS
MFRD

BODY AVE OVERRIDE
3.5V TRUE
OV FALSE

READ DIRECT
(FROM C17 S1
SH.1)



HAMMER GATE

FROM MANUAL COMPUTER MODE KEY

OV IN MANUAL
-3V IN COMPUTER MODE

1520 ADDRESS 300-335
0502 (SH4) ADDRESS 200-399

ACCUMULATOR INPUT/OUTPUT

UNCL. STRAIGHTEN & B. TREATS PER BAC 5300
 ALL SUBSTITUTION & ENITS PER BAC 5305
 UNCL. SUBSTITUTIONS FACTURING PROCESSES 19726
 FINISH PER BAC 5307
 STL & STN PER BAC 5004
 D 320P FOR SURFACE 4725
 DR CODES, SEE DOCUMENT 14-08-04-5000

DIMENSIONING & TOLERANCING PER USAS Y14.5

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES: - DECIMALS: - RIVET & BOLT EDGE MARGINS: ±.05 SHEET METAL CORNER RADII: INTERNAL 16 16 16 EXTERNAL 22 25 25 BEND RADII: 31 ON 03 & 04 1.03 ON 09 & GREATER

SEE SHEET 1 OR PL FOR LIST OF MATERIAL, USAGE AND NOTES

USED ON	DRAWN	DATE
SECT NO.	CHECKED	
CHG NO.	STRESS	
GROUP ORG	ENGR	2-10-69
	PROJ	
	EST	

THE **BOEING** COMPANY
 COMMERCIAL AIRPLANE DIVISION RENTON, WASH.

**SCHEMATIC-
 INTERFACE BUFFER**

CODE IDENT NO: 81205
 SIZE: J
 SCALE: NONE

64-31599

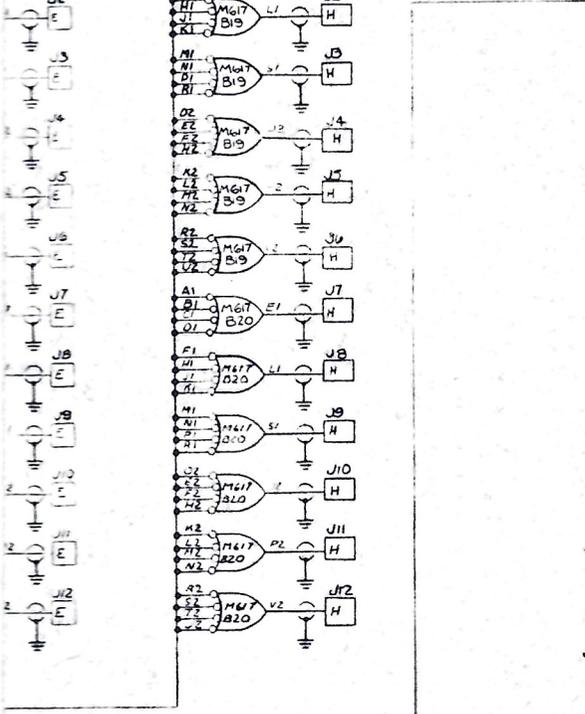
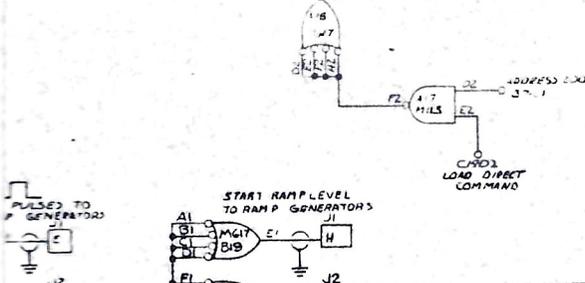
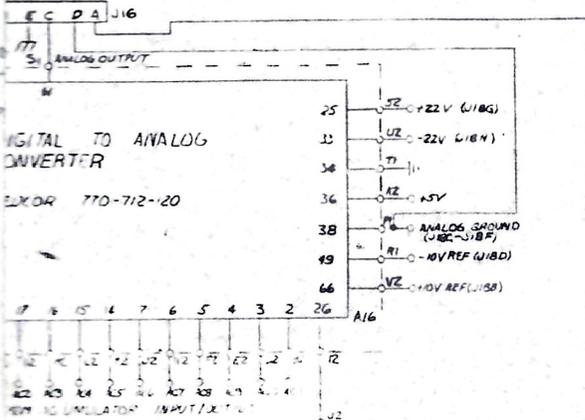
SH 34233

128
 C
 B
 SH REV SYM
 3423.3
 64-31599
 A
 DRAWING RECORDS CLERK

64-31200-2H 34233
 RETRUF EXCHANGE BUFFER

RIVET SYMBOL CODE		SYMBOL	ZONE
INSTL	STD. PER BAC 5004. FLUID TIGHT PER BAC 5047		
BASIC CODE	ENCLOSED = FLUID TIGHT OPEN = STANDARD		
DIMPLE CSK INFO	D = DIMPLE F = NO. 5H DIMPLED C = CSK INSTRUCTURE 2 LINES, TOP = MFD HD, BOTTOM = DRIVEN HD	XX XX DZC XW	DIA DASH NO MFD HEAD LOC N = NEAR SIDE F = FAR SIDE SPOT WELD OPT LENGTH DASH NO
NOTE	PROTRUDING HD RIVETS DRIVEN FLUSH D/C INFO (2 LINES) APPLIES TO DRIVEN HD ONLY + HOLE LOCATION FOR X DIAMETER RIVET		

REVISIONS		DATE	APPROVAL
DESCRIPTION			



POWER DISTRIBUTION
RAMP LENGTH DETERMINATION
START/STOP RAMP AND
PROGRAMMER RUN/HOLD
CIRCUITRY

FORM PUNCH, STRAIGHTEN & FIT METAL PARTS PER BAC 5000
MATERIAL SUBSTITUTION & EQUIVALENTS PER BAC 5005
BOLT & NUT INSTALLATION PER BAC 5009
PART MARKING PER BAC 5307
SEE BAC 2097 FOR SURFACE FINISHES
FOR FINISH CODE SEE DOCUMENT B3 5000

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES - DECIMALS
RIVET & BOLT EDGE MARGINS ± 0.01
SHEET METAL CORNER RADIUS ROUTED PARTS ONLY
INTERNAL 1/16
EXTERNAL 2/32
BEND RADIUS:
Ø 1/16 ON .03 & .04
Ø 1/8 ON .05 & GREATER

USED ON	DRAWN	DATE
CHECKED	STRESS	ENGR
GROUP	GROUP	GROUP
GROUP ORG	EDT 1	

SEE SHEET 1 OR PL FOR LIST OF MATERIAL USAGE AND NOTES

THE BOEING COMPANY	
COMMERCIAL AIRPLANE DIVISION RENTON WASH	
SCHEMATIC - INTERFACE BUFFER	
CODE IDENT NO	64-31599
SCALE	3423.5

DRAWING RECORDS CLERK

64-31599 3423.5

04-31200 2H 3453'2

RIVET SYMBOL CODE		SYMBOL	ZONE	REVISIONS	DESCRIPTION	DATE	APPROVAL
INSTR: STD. PER BAC 5004; FLUID TIGHT. PER BAC 5047							
BASIC CODE = FLUID TIGHT							
ENCLOSED = FLUID TIGHT							
OPEN = STANDARD							
DIMPLE CSK INFO		XX XX					
D=DIMPLE		D2C					
2=NO. SH DIMPLED		XW					
C=CSK INSTRUCTURE							
3 LINES: TOP=MFD HD; BOTTOM=DRIVEN HD							
NOTE: PROTRUDING HD RIVETS DRIVEN FLUSH							
O/C INFO (2 LINES) APPLIES TO DRIVEN HD ONLY							
+ HOLE LOCATION FOR X DIAMETER RIVET							

NUMBERS	1	2	3	4	5	6	7	8	9	0
ALPHABET	A	B	C	D	E	F	G	H	I	J
ALPHABET	K	L	M	N	O	P	Q	R	S	T
ALPHABET	U	V	W	X	Y	Z				

ADDRESS DECODING

FORM, PUNCH, STRAIGHTEN & FIT METAL PARTS PER BAC 5300.
 MATERIAL SUBSTITUTION & EQUIVALENTS PER BAC 5005
 BOLT & NUT INSTALLATION PER BAC 5009
 PART MARKING PER BAC 5307
 SEE BAC 2097 FOR SURFACE ROUGHNESS
 FOR FINISH CODE, SEE DOCUMENT D1-5000

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES:
 ANGLES - DECIMALS
 RIVET & BOLT EDGE MARGINS ±.05
 SHEET METAL CORNER RADIUS ROUTED PARTS ONLY
 INTERNAL .16 IN
 EXTERNAL .22 IN
 BEND RADIUS
 ±.01 ON .03 & .06
 ±.03 ON .09 & GREATER

USED ON	DRAWN	DATE
SECT NO.	CHECKED	
CHG NO.	ENGR	2-10-65
GROUP ORG	PROJ	
EDT		

SEE SHEET 1 OR PL FOR LIST OF MATERIAL USAGE AND NOTES	
THE BOEING COMPANY COMMERCIAL AIRPLANE DIVISION RENTON WASH	
SCHEMATIC - INTERFACE BUFFER	
CODE IDENT NO	SIZE
81205	J 64-31599
SCALE NONE	SH 3423.4

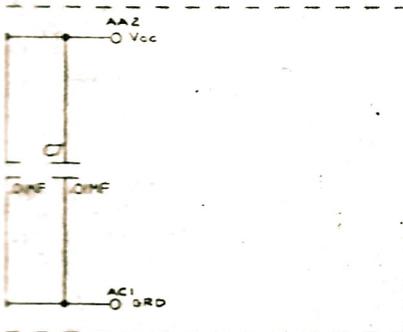
64-31599 3423.4

64-31200 2H3453.4
 INTERFACE BUFFER
 5072

RIVET		WBOL CODE		REVISIONS				
				SYM	ZONE	DESCRIPTION	DATE	APPROVAL
INSTL: STD. PER BAC 504	FLUID TIGHT. PER BAC 5047							
BASIC CODE	DIA DASH NO.							
ENCLOSED = FLUID TIGHT	MFD HEAD LOC							
OPEN = STANDARD	N = NEAR SIDE							
	F = FAR SIDE							
DIMPLE/CSE INFO	SPOT WELD OPT							
B = DIMPLE								
Z = NO. SH DIMPLED	LENGTH DASH NO							
C = CSE INSTRUCTIONS								
2 LINES: TOP = MFD HD, BOTTOM = DRIVEN HD								
NOTE: PROTRUDING HD RIVETS DRIVEN FLUSH								
D - C INFO (2 LINES) APPLIES TO DRIVEN HD ONLY								
* - HOLE LOCATION FOR X DIAMETER RIVET								

602

113



64-31540-1 (REF.)
OR M112
TWO INPUT GATE CARD

64-31519-1 (REF.)
ACCUMULATOR INPUTS
EXCESS TRAVEL CARD

64-31518-1 (REF.)
ACCUMULATOR OUTPUTS CARD

64-31517-1 (REF.)
COMMAND MATRIX CARD

64-31532-1 (REF.)
RAMP GEN. ASSY.

SCHEMATIC
10 CHANNEL RAMP GEN.
TC/24 64-31527-1

SEE SHEET 1 ON PL FOR LIST OF MATERIAL, USAGE AND NOTES

PUNCH, STRAIGHTEN &
DRILL PARTS PER BAC 5040
ALL DIMENSIONS &
ANGLES PER BAC 5045
NOTE INSTALLATION
C. 5049
HANDLING PER BAC 5067
DRY CLEAN PER SURFACE
FINISH
FOR LEGS SEE DOCUMENT
64-31527-1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGLES ± DECIMALS ±
RIVET & BOLT EDGE
MARGINS ± .05
SHEET METAL CORNER RADI:
ROUTED PARTS ONLY
INTERNAL .16 ± .01
EXTERNAL .22 ± .01
BOND RADI:
.01 ON .03 & .04
.03 ON .04 & GREATER

USED ON	DRAWN	DATE
7-47	HOWERY	5-15-63
FATIGUE	CHECKED	W R CONE
		9-19-63
SECT NO.	STRESS	
	ENGR	GR OLBRECHTS
CHG NO.	GROUP	8 18 49
GROUP ORG	PROJ	
EDTI		

THE BOEING COMPANY	
COMMERCIAL AIRPLANE DIVISION, RENTON, WASH.	
CODI IDENT NO.	SIZE
81705	J
SCALE NONE	64-31599
SH 2474	

DRAWING RECORDS CLERK

ASAC: H20001E-A1

SYM	DESCRIPTION	DATE	APPROVAL

UP/DN D TO A CONVERTER
(64-31263-1)

BR2
-11V

**SCHEMATIC
10 CHANNEL RAMP GENERATOR**

TC/24
64-31527-1

UP / DOWN COUNTER
& DAC

SEE SHEET 1 FOR LIST OF MATERIAL AND NOTES

USED ON	DRAWN	DATE	THE BOEING COMPANY COMMERCIAL AIRPLANE DIVISION, RENTON, WASH.	
	CHECKED <i>W.R. COVE</i>	10-2-68		
SECT NO.	ENGR.			
CHG NO.	GROUP			
GROUP ORG	PROJ		CODE IDENT NO	SIZE
EDTI			81205	J
			64-31599	
			SCALE NMM	SM 34242
			1	REV 5-1-70

A
B
C
ISSUE NO
REV SYM
SH

64-31263-1A
S. ASAC, H2001C-49
10 CHAIN DRAWING GEN