

TITLE:	TK70 TAPE DRIVE	SHEET 2 OF 4	SIZE CODE BDD	NUMBER TK70-0-DBU	REV. F
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SHO

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MPO2294-01	TK70 FIELD MAINTENANCE PRINT SET	-		B-MD-7429216-0-DBU	SHAFT, PIVOT LINK	M
	B-TC-TK70-0-DBU	TK70 TABLE OF CONTENTS	-		D-MD-7429214-0-DBU	LINK, CLUTCH LEFT HAND	M
	E-UA-TK70-0-DBU	TK70 DRIVE ASSY	E/M		D-MD-7429213-0-DBU	LNK, CLUTCH RIGHT HAND	M
	K-PL-TK70-0-DBP	TK70 DRIVE ASSY (PL)	E/M		D-MD-7429212-0-DBU	FLOOR, RECEIVER	M
	K-RM-TK70-0-DBU	TK70 REV. MATRIX DOCUMENT	-		D-MD-7429211-0-DBU	PLATE, CLUTCH	M
	A-SP-TK70-0-1	TK70 PRODUCT SPECIFICATION	E/M		D-MD-7434496-0-DBU	LINK, BUCKLING	-
	D-MD-7427668-0-DBU	REEL, TAKE-UP	M		A-PS-3628810-0-DBU	DECAL, HANDLE	-
	D-MD-7429616-0-DBU	CONSTRAINT, TAPE	M				
	D-MD-7428268-0-DBU	LEADER, TAKE-UP	M				
	C-MD-7432344-0-DBU	GUARD, TAPE	M				
	B-MD-7429585-0-DBU	STRAIN RELIEF, HEAD	M	6	C-AD-7021738-0-DBU	INTERPOSER ASSEMBLY	M
	D-MD-7430728-0-DBU	BRACKET, SPRING SUPPORT	M		K-PL-7021738-0-DBP	INTERPOSER ASSEMBLY (PL)	-
	D-MD-7434038-0-DBU	CAPSTAN, TACHOMETER	M		E-MD-7429215-0-DBU	INTERPOSER	M
	D-MD-7425652-0-DBU	PLATE, SKID	M		C-MD-7429218-0-DBU	MOUNT, SWITCH	M
	C-MD-7435724-0-DBU	RETAINER, DAMPER	M				
	B-MD-7435725-0-DBU	DAMPER, VIBRATION	M				
	D-1A-7436424-0-DBU	ENCLOSURE	M				
	K-PL-7436424-0-DBP	ENCLOSURE (PL)	M				
2	D-AD-7021736-0-DBU	MOTOR & BASEPLATE ASSEMBLY	E/M	7	D-1A-7024656-0-DBU	HANDLE ASSY	M
	K-PL-7021736-0-DBP	MOTOR & BASEPLATE ASSEMBLY (PL)	-		K-PL-7024656-0-DBP	HANDLE ASSY (PL)	-
	C-MD-7431657-0-DBU	PLATE, DRIVER SPRING SUPPORT	M				
	B-MD-7429607-0-DBU	SHIELD, ACTUATOR	M				
				8	D-1A-7024657-0-DBU	HANDLE, ENGAGING	M
					K-PL-7024657-0-DBP	HANDLE, ENGAGING (PL)	-
					B-MD-7434433-0-DBU	SHAFT	M
3	D-1A-7021732-0-DBU	BASEPLATE ASSEMBLY	M				
	K-PL-7021732-0-DBP	BASEPLATE ASSEMBLY (PL)	-				
	D-MD-7427667-0-DBU	BASEPLATE, MACHINING	M				
	B-MD-7429210-0-DBU	PIN, DRIVER LINK	M				
	C-MD-7429209-0-DBU	SHAFT, PULLEY	M	9	C-AD-7023544-0-DBU	LEADER LATCH ASSY	M
	B-MD-7429388-0-DBU	POST, HEAD GUIDE	M		K-PL-7023544-0-DBP	LEADER LATCH ASSY (PL)	-
					D-MD-7434495-0-DBU	ARM, BUCKLING	M
					D-MD-7432418-0-DBU	LINK, DRIVER	M
4	D-AD-7023477-0-DBU	REEL DRIVER ASSEMBLY	M				
	K-PL-7023477-0-DBP	REEL DRIVER ASSEMBLY (PL)	-				
	D-MD-7427691-0-DBU	HUB, DRIVER	M	10	C-AD-7023482-0-DBU	BRACKET HEAD ASSY	E/M
	E-MD-7427688-0-DBU	REEL, DRIVER	M		K-PL-7023482-0-DBP	BRACKET HEAD ASSY (PL)	-
					D-MD-7427718-0-DBU	BRACKET HEAD	M
5	D-AD-7023497-0-DBU	RECEIVER ASSY	M				
	K-PL-7023497-0-DBP	RECEIVER ASSY (PL)	-				
	E-MD-7432530-0-DBU	RECEIVER	M				

TYPE: E ELECTRICAL  
M MECHANICAL  
E/M ELECTRO/MECHANICAL

digital

TITLE: TK70 TAPE DRIVE

SHEET 3 OF 4

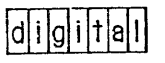
SIZE CODE  
BDD

NUMBER  
TK70-0-DBU

REV.  
F

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
11	D-AD-7024659-0-DBU	TACHOMETER ASSY	M				
	K-PL-7024659-0-DBP	TACHOMETER ASSY (PL)	-				
	E-IA-7432341-0-DBU	BODY, TACHOMETER	M				
	D-MD-7427698-0-DBU	DISC, ENCODER	M				
	D-MD-7434038-0-DBU	CAPSTAN, TACHOMETER	M				
	D-MD-7429220-0-DBU	MASK, ENCODER	M				
	D-MD-7432343-0-DBU	GUIDE, TACHOMETER	M				
	C-MD-7432342-0-DBU	COVER PLATE, TACHOMETER	M				
	B-MD-7431389-0-DBU	RING SUPPORT CAPSTAN	M				
	B-MD-7032345-0-DBU	SHAFT, TACHOMETER	M				
12	C-IA-7021141-0-DBU	EXTERNAL SHIELD ASSY	M				
	K-PL-7021141-0-DBP	EXTERNAL SHIELD ASSY (PL)	-				
	D-MD-7429208-0-DBU	BRACKET, EXTERNAL SHIELD	M				
	B-MD-7429371-0-DBU	SHIELD	M				
13	C-IA-7023517-0-DBU	BEZEL ASSY	M				
	K-PL-7023517-0-DBP	BEZEL ASSY (PL)	-				
	E-MD-7434041-0-DBU	BEZEL	M				
	C-MD-7434166-0-DBU	BUTTON, PUSH	M				
	A-PS-3627465-0	DECAL, BEZEL TK70	-				
14	K-DD-5418272-0-DBU	BEZEL DRIVE BOARD	E/M				
15	C-AD-7021765-0-DBU	INSULATOR ASSY	M				
	K-PL-7021765-0-DBP	INSULATOR ASSY (PL)	-				
	D-MD-7430814-0-DBU	CLIP, GROUNDING (REWORKED)	M				
	C-MD-7431149-0-DBU	INSULATOR, SKID PLATE	M				
16	B-DD-5417637-0	TK70 DRIVE BOARD	E/M				

TYPE: E ELECTRICAL  
M MECHANICAL  
E/M ELECTRO/MECHANICAL



TITLE: TK70 TAPE DRIVE

SHEET 4 OF 4

SIZE CODE  
B DD

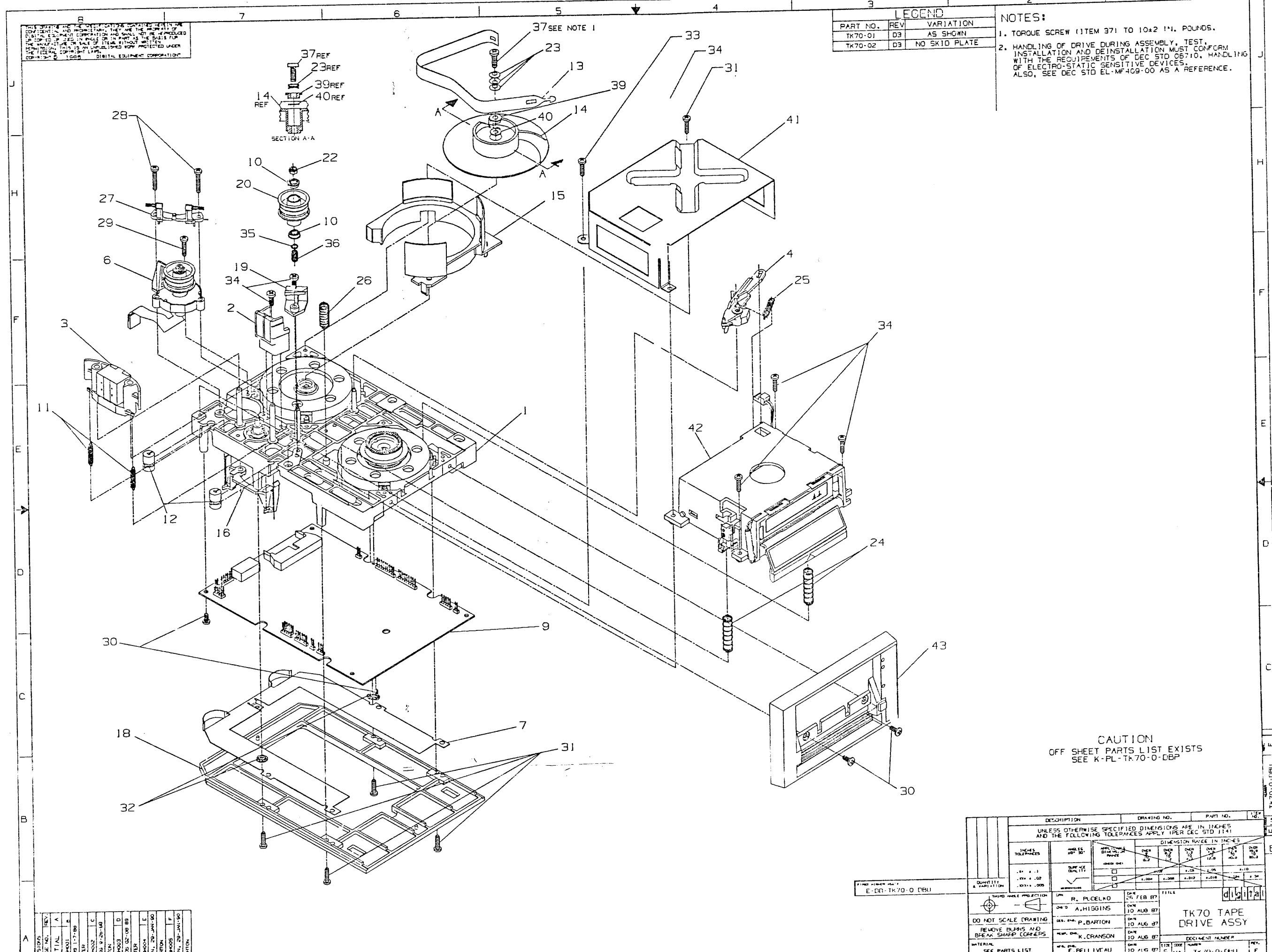
NUMBER  
TK70-0-DBU

REV.  
F

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LEGEND		
PART NO.	REV	VARIATION
TK70-01	D3	AS SHOWN
TK70-02	D3	NO SKID PLATE

- NOTES:
1. TORQUE SCREW (ITEM 37) TO 10±2 IN. POUNDS.
  2. HANDLING OF DRIVE DURING ASSEMBLY, TEST, INSTALLATION AND DEINSTALLATION MUST CONFORM WITH THE REQUIREMENTS OF DEC STD 06710, HANDLING OF ELECTRO-STATIC SENSITIVE DEVICES. ALSO, SEE DEC STD EL-MF469-00 AS A REFERENCE.



CAUTION  
OFF SHEET PARTS LIST EXISTS  
SEE K-PL-TK70-0-DBP

REV	DATE	BY	CHKD	APP'D	DESCRIPTION
1	10-17-88	A			INITIAL
2	11-17-88	F			REV 1-7-88
3	9-26-88	C			REV 1-7-88
4	10-17-88	D			REV 1-7-88
5	10-17-88	B			REV 1-7-88
6	10-17-88	E			REV 1-7-88
7	10-17-88	F			REV 1-7-88
8	10-17-88	F			REV 1-7-88

E-DR-TK70-0-DBU

DESCRIPTION	DRAWING NO.	PART NO.	REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
DIMENSION RULES IN INCHES			
INCHES TOLERANCES	ANGLES	APPROXIMATE DIMENSIONS	OTHER
.001	± .01	OVER 1/8	OVER 1/8
.002	± .02	1/8 - 1/4	1/8 - 1/4
.003	± .03	1/4 - 3/8	1/4 - 3/8
.004	± .04	3/8 - 1/2	3/8 - 1/2
.005	± .05	1/2 - 3/4	1/2 - 3/4
.006	± .06	3/4 - 1	3/4 - 1
.007	± .07	1 - 1 1/2	1 - 1 1/2
.008	± .08	1 1/2 - 2	1 1/2 - 2
.009	± .09	2 - 3	2 - 3
.010	± .10	3 - 4	3 - 4
.015	± .15	4 - 6	4 - 6
.020	± .20	6 - 12	6 - 12
.030	± .30	12 - 24	12 - 24
.050	± .50	24 - 48	24 - 48
.070	± .70	48 - 96	48 - 96
.100	± 1.00	96 - 192	96 - 192
.150	± 1.50	192 - 384	192 - 384
.200	± 2.00	384 - 768	384 - 768
.300	± 3.00	768 - 1536	768 - 1536
.500	± 5.00	1536 - 3072	1536 - 3072
1.000	± 10.00	3072 - 6144	3072 - 6144
1.500	± 15.00	6144 - 12288	6144 - 12288
2.000	± 20.00	12288 - 24576	12288 - 24576
3.000	± 30.00	24576 - 49152	24576 - 49152
5.000	± 50.00	49152 - 98304	49152 - 98304
10.000	± 100.00	98304 - 196608	98304 - 196608
15.000	± 150.00	196608 - 393216	196608 - 393216
20.000	± 200.00	393216 - 786432	393216 - 786432
30.000	± 300.00	786432 - 1572864	786432 - 1572864
50.000	± 500.00	1572864 - 3145728	1572864 - 3145728
100.000	± 1000.00	3145728 - 6291456	3145728 - 6291456
150.000	± 1500.00	6291456 - 12582912	6291456 - 12582912
200.000	± 2000.00	12582912 - 25165824	12582912 - 25165824
300.000	± 3000.00	25165824 - 50331648	25165824 - 50331648
500.000	± 5000.00	50331648 - 100663296	50331648 - 100663296
1000.000	± 10000.00	100663296 - 201326592	100663296 - 201326592
1500.000	± 15000.00	201326592 - 402653184	201326592 - 402653184
2000.000	± 20000.00	402653184 - 805306368	402653184 - 805306368
3000.000	± 30000.00	805306368 - 1610612736	805306368 - 1610612736
5000.000	± 50000.00	1610612736 - 3221225472	1610612736 - 3221225472
10000.000	± 100000.00	3221225472 - 6442450944	3221225472 - 6442450944
15000.000	± 150000.00	6442450944 - 12884901888	6442450944 - 12884901888
20000.000	± 200000.00	12884901888 - 25769803776	12884901888 - 25769803776
30000.000	± 300000.00	25769803776 - 51539607552	25769803776 - 51539607552
50000.000	± 500000.00	51539607552 - 103079215104	51539607552 - 103079215104
100000.000	± 1000000.00	103079215104 - 206158430208	103079215104 - 206158430208
150000.000	± 1500000.00	206158430208 - 412316860416	206158430208 - 412316860416
200000.000	± 2000000.00	412316860416 - 824633720832	412316860416 - 824633720832
300000.000	± 3000000.00	824633720832 - 1649267441664	824633720832 - 1649267441664
500000.000	± 5000000.00	1649267441664 - 3298534883328	1649267441664 - 3298534883328
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2000000.000	± 20000000.00	13194139533312 - 26388279066624	13194139533312 - 26388279066624
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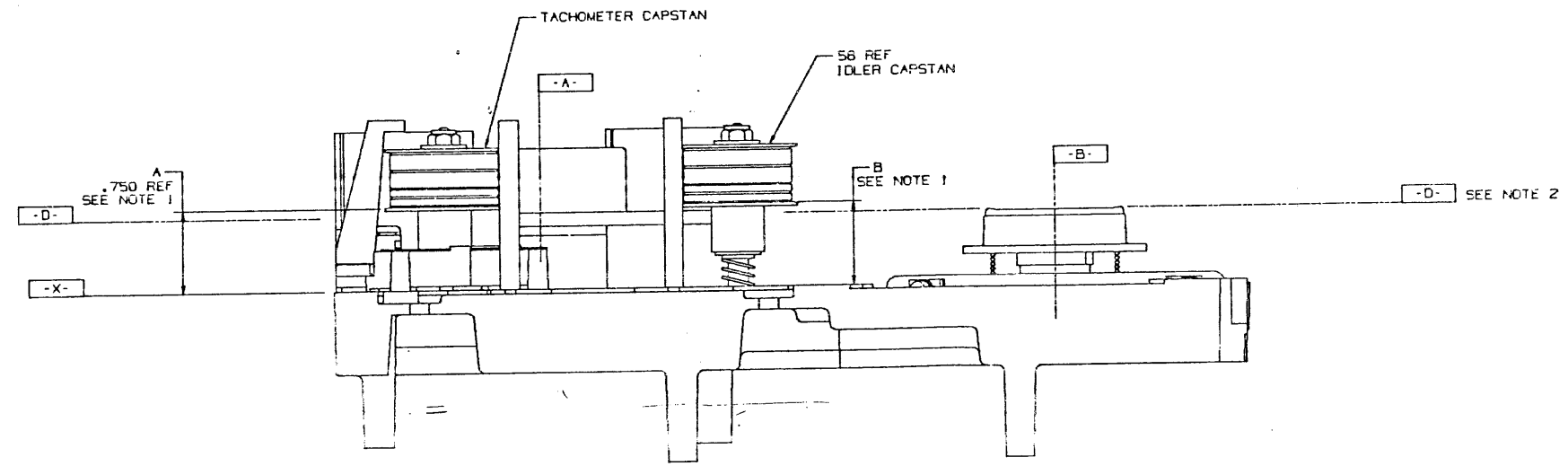
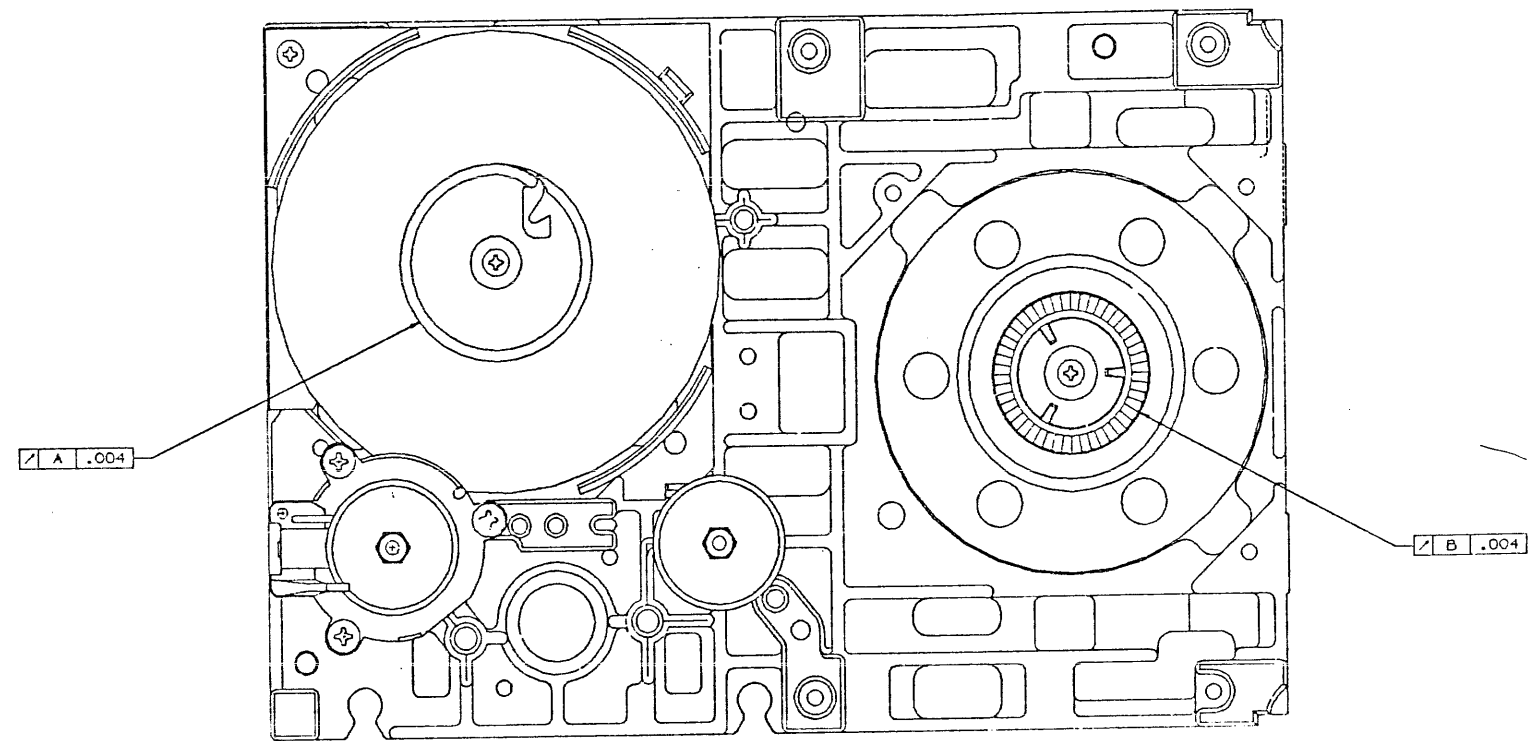
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NOTES:

- ADJUST EACH CAPSTAN HEIGHT (A & B) SUCH THAT THE LOWER FLANGE OF EACH LIES IN PLANE .092 ± .002 ABOVE THE MEASURED DATUM  $\square$ -D- AND THE DIFFERENCE IN HEIGHT OF THE LOWER FLANGES OF THE CAPSTAN IS ± .001.

CONDITIONS TO BE MET:  
 DIMENSIONS A-C = .092 ± .002  
 DIMENSIONS B-C = .092 ± .002  
 DIMENSIONS |A-B| ≤ .001

- DATUM  $\square$ -D- DEFINED BY TOP OF .0469 DIA PINS.



REVISION HISTORY		
DATE	ECO HISTORY	REV

TITLE  
 TK70 TAPE DRIVE  
 ASSY

DOCUMENT NUMBER			
SYMBOL	NUMBER	REV	
E	UA	TK70-0-DBU	F
SCALE 2/1		SHEET 2 OF 2	

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01 D03	02 D03
1	1	D-AD-7021736-0-DBU	70-21736-02		MOTOR BASEPLATE ASSY	1	1
2	2	C-IA-7021141-0-DBU	70-21141-01		EXTERNAL SHIELD ASSY.	1	1
3	3	C-AD-7023482-0-DBU	70-23482-01		TK70 RECORDING HEAD (1/2" TAPE)	1	1
4	4	C-AD-7023544-0-DBU	70-23544-01		LEADER LATCH ASSY	1	1
5	5				*** THIS ITEM IS NOT USED ***	-	-
6	6	D-AD-7024659-0-DBU	70-24659-01		TACHOMETER ASSY	1	1
7	7	C-AD-7021765-0-DBU	70-21765-01		INSULATOR ASSY.	1	-
8	8				*** THIS ITEM IS NOT USED ***	-	-
9	9	D-IA-5417637-0-DBU	54-17637-01		TK70 DRIVE MODULE	1	1
10	10	A-SP-1222788-0-DBU	12-22788-01		BEARING,BALL,FLANGED	2	2
11	11	A-SP-1222895-0-DBU	12-22895-01		SPRING,EXTENSION,HEAD BRACKET	2	2
12	12	B-MD-7429585-0-DBU	74-29585-01		STRAIN RELIEF,HEAD	2	2
13	13	D-MD-7428268-0-DBU	74-28268-01		LEADER,CARTRIDGE (TAKE-UP)	1	1
14	14	D-MD-7427668-0-DBU	74-27668-01		REEL,TAKE-UP	1	1
15	15	D-MD-7429616-0-DBU	74-29616-01		CONSTRAINT,TAPE	1	1
16	16	D-MD-7430728-0-DBU	74-30728-01		BRACKET,HEAD SPRING	1	1
17	17	C-AD-7024666-0-DBU	70-24666-01		*** THIS ITEM IS NOT USED ***	-	-
18	18	D-MD-7425652-0-DBU	74-25652-01		PLATE,SKID	1	1
19	19	C-MD-7432344-0-DBU	74-32344-01		GUARD, TAPE	1	1
20	20	D-MD-7434038-0-DBU	74-34038-01		CAPSTAN, TACHOMETER	1	1
21	21	A-PS-1224692-0-0	12-24692-02		*** THIS ITEM IS NOT USED ***	-	-
22	22	A-PS-9008054-0-DBU	90-08054-00		NUT,HEX SLF LCKNG NYL INS 4-40X	1	1
23	23	A-PS-9010506-0-0	90-10506-01		WASHER,SPRING BELLEVILLE STEEL	3	3
24	24	A-PS-1222357-0-DBU	12-22357-01		SPRING,COMPRESSION .3200DX	2	2
25	25	A-PS-1222358-0-DBU	12-22358-01		SPRING,EXTENSION .2600D	1	1
26	26	A-PS-1212912-0-DBU	12-12912-01		SPRING,COMPRESSION .3000DX1.00 LG	1	1
27	27	A-PS-1123276-0-DBU	11-23276-01		EOT/BOT LED-PHOTO ASSY	1	1
28	28	A-PS-9000049-0-DBU	90-00049-58		SCREW,SEMS 6-32 PAN .750 XRCS	2	2
29	29	A-PS-9010109-0-DBU	90-10109-00		SCREW,SEMS 6-32 PAN .625 XRCS	1	1
30	30	A-PS-9010717-0-DBU	90-10717-01		SCREW,MACH 6-32 PAN .250 XRCS	4	4

REVISION HISTORY		KPL MATRIX FORMAT SECTION A OF A		DRN: R. PUDELKO	DIGITAL		
				DATE: 23-APR-87			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	CHK'D: A.HIGGINS	TITLE PARTS LIST		
	INITIAL	A	[A] 01,02	DATE: 06-AUG-87	TK70 TAPE DRIVE ASSY		
EW	TK70-SH001	B	[B]	DES.ENG: P.BARTON	DOCUMENT NUMBER		
PB	TK70-SH002	C	[C]	DATE: 06-AUG-87	SIZE	CODE	NUMBER
EW	TK70-SH003	D	[D]	RESP.ENG.: K.CRANSON	K	PL	TK70-0-DBP
PB	TK70-SH004	E	[E]	DATE: 06-AUG-87	REV		
PB	TK70-SH005	F	[F]	MFG.ENG: F.BELLIVEAN	RELEASE DATE: 01-FEB-90		
			[H]	DATE: 06-AUG-87	RELEASE STATUS: RELEASED		
			[J]				
		BASIC PART NUMBER: TK70		ASSEMBLY NUMBER: E-UA-TK70-0-DBU	TOP DOCUMENT NUMBER: B-DD-TK70-0-DBU		EDIT # 2
		FILE NAME: TK70F.PLS					

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AUTOMATED BY VAXKPL (V2.1-3)

OWNER: SHR  
MIN  
REV

PARTS LIST

SHEET A2  
01 02  
D03 D03

OF A2  
QUANTITY PER VARIATION/REVISION

LINE ITEM TOP DOCUMENT

PART NUMBER

DESCRIPTION

LINE ITEM	TOP DOCUMENT	PART NUMBER	DESCRIPTION	01 D03	02 D03
31	A-PS-9006022-0-DBU	90-06022-01	SCREW, MACH 6-32 PAN .375 XRCS	4	-
32	A-PS-9009882-0-DBU	90-09882-00	WASHER, LOCK INTERNAL SST	2	-
33	A-PS-9000049-0-DBU	90-00049-36	SCREW, THRL 6-32 PAN .500 XRCS	1	1
34	A-PS-9010174-0-DBU	90-10174-03	SCREW, SEMS 6-32 PAN .500 XRCS	6	6
35	A-PS-1224692-0-DBU	12-24692-03	WASHER, FLAT	1	1
36	A-PS-1213656-0-DBU	12-13656-05	SPRING, COMPRESSION .2350DX .83 LG	1	1
37	A-PS-9006022-0-0	90-06045-01 A	SCREW, MACH 8-32 PAN XRCS	1	1
38	A-PS-9010174-0-DBU	90-10174-01	*** THIS ITEM IS NOT USED ***	-	-
39	C-MD-7435724-0-DBU	74-35724-01	RETAINER, DAMPER	1	1
40	B-MD-7435725-0-DBU	74-35725-01	DAMPER, VIBRATION	1	1
41	D-IA-7436424-0-DBU	74-36424-01	ENCLOSURE	1	1
42	D-AD-7023497-0-DBU	70-23497-02	RECEIVER ASSY NOTCHED	1	1
43	D-AD-7023517-0-DBU	70-23517-02	BEZEL ASSY, NOTCHED	1	1

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TK70 TAPE DRIVE ASSY		K	PL	TK70-0-DBP	F

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS															
				A1	A2	A3	A4	A5	B5										
		5417637-01	TK70 DRIVE	A	B	C	D	E	F										
DI-UA-5417637-0-0	5		TK70 DRIVE	A	B	C	D	E	F										
K-PL-5417637-0-DBP	4		PARTS LIST (SH2911)	A	B	C	D	E	F										
K-CS-5417637-0-DBS	-		CIRCUIT SCHEMATIC DATA BASE	A	B	B	B	C	C										
K-PC-5417637-0-DBV	-		P.C. DESIGN DATA BASE	A	A	B	B	B	C										
K-CS-5417637-0-1	7		CIRCUIT SCHEMATIC	A	B	B	B	C	C										
		5017636-01	ETCH CIRCUIT BOARD	A1	A1	A2	A2	A2	A2										
B-DD-5017636-0	1		DRAWING DIRECTORY	A	A	B	B	B	B										

NOTES:

REVISION HISTORY		A	B	C	D	E	F
DATE	ECC NO	INIT	SH001	SH002	SH003	SH004	SH005
FEB 87							
APR 88							
JUN 88							
MAR 89							
MAY 89							
DEC 89							

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digital

DRN.	R. KOPPENAL	DATE	23FEB87
CHKD.	R. KOPPENAL	DATE	23FEB87
DES. ENG.	D. BEAUREGARD	DATE	10FEB87
RESP. ENG.	D. BEAUREGARD	DATE	10FEB87
MFG. ENG.	C. SWEENEY	DATE	12MAR87

TITLE :			
TK70 DRIVE			
DOCUMENTATION NUMBER			
MEDIA	CODE	NUMBER	REV.
B	00	5417637-0	F
SIZE - B		SHEET 1	OF 1

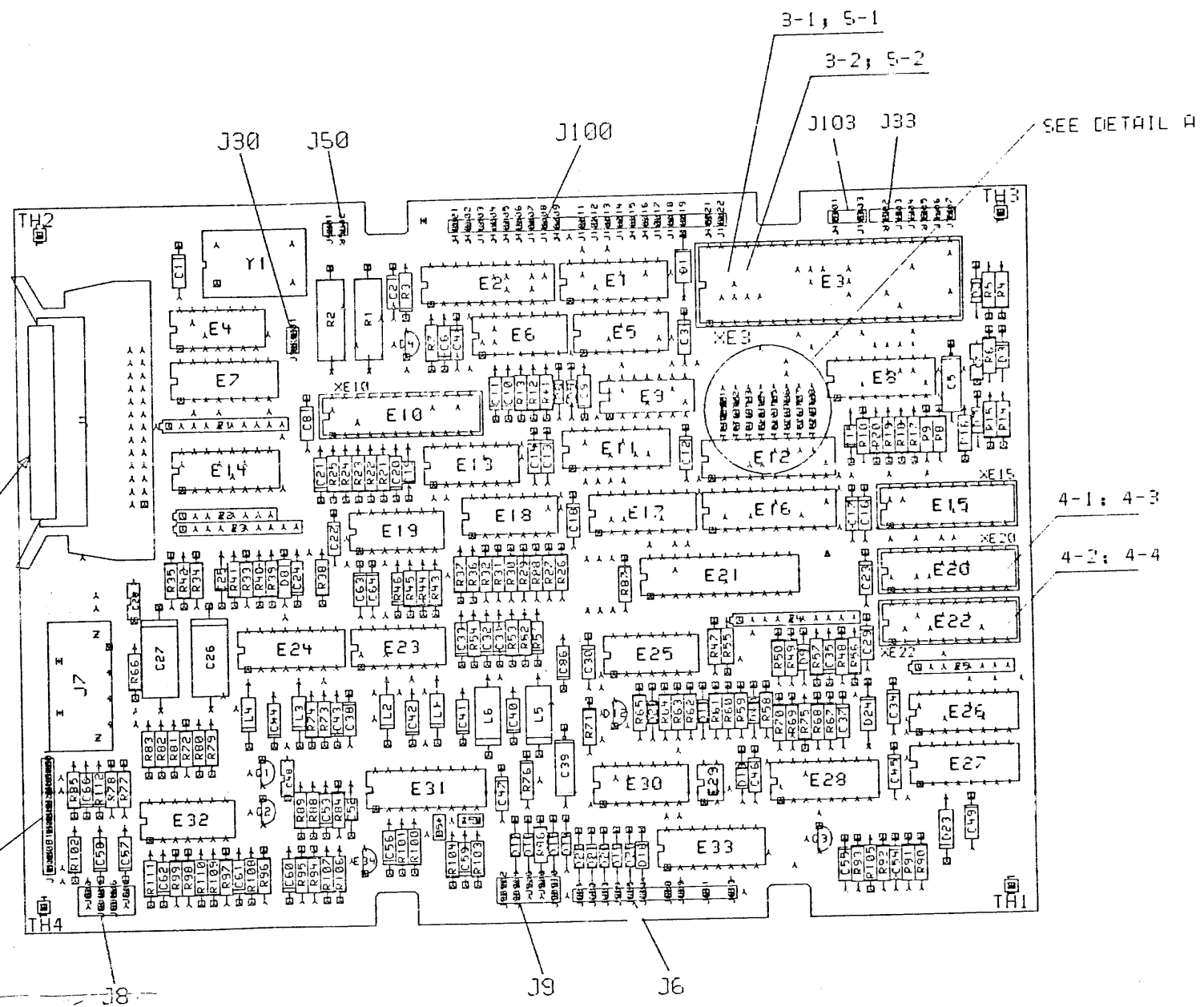
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VIEWED FROM SIDE 1  
COMPONENT SIDE

DETAIL A

	(W2)	(W3)	(W4)	(W5)	(W6)	(W7)	(W8)
TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8
□	□	□	□	□	□	□	□
TP9	TP10	TP11	TP12	TP13	TP14	TP15	TP16
□	□	□	□	□	□	□	□
TP17	TP18	TP19	TP20	TP21	TP22	TP23	TP24
□	□	□	□	□	□	□	□

SEE NOTE 3



- NOTES
1. SPARE I.C. LOCATIONS ARE E21.
  2. TP1-TP24 WILL BE USED TO SET DRIVE (ELECTRICAL/MECHANICAL) HARDWARE REVISION FOR FIELD SERVICE.
  3. PLACE BARCODE AT THIS LOCATION.

CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV
RK	R. KOFFENAL	A. M. HICKEY	SH001	4/88	E
RK	L. BARRETT	A. M. HICKEY	SH002	6/88	C
RK	G. BURDENKO	A. M. HICKEY	SH003	3/89	D
RK	L. BARRETT	A. M. HICKEY	SH004	5/89	E
RK	G. BURDENKO	SULLIVAN	SH005	12/89	F

CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

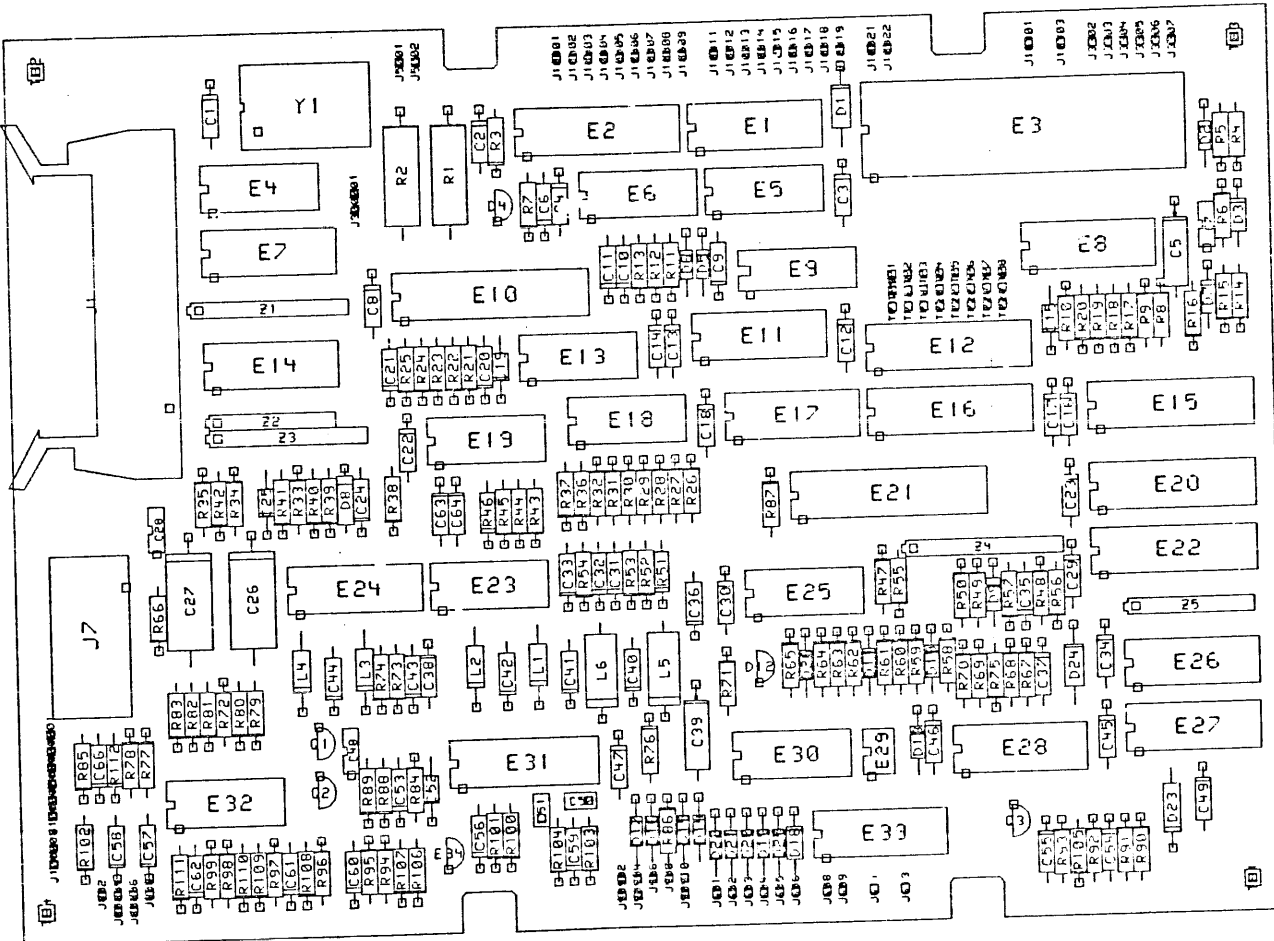
SIGNATURES		DATE	digital
DRAWN: STU EVANS JR.		01/06/86	
CHECKED: KOFFENAL		01/06/86	TITLE
MECH ENG: G. BURDENKO		02/08/87	
PROJ ENG: G. BURDENKO		02/08/87	TK70 DRIVE
PROJ. C. SWEENEY		02/08/87	
SCALE: 2/1		SIZE/CODE	NUMBER
SHEET 1 OF 5		1/A	
TOP DOC NO: B-00-5417637-0		REV	F

1 WQ# 408744

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0-0-L-89-105 001 002 003 004 005 006 007 008

VIEWED FROM SIDE 1  
COMPONENT SIDE



TITLE  
TK70 DRIVE

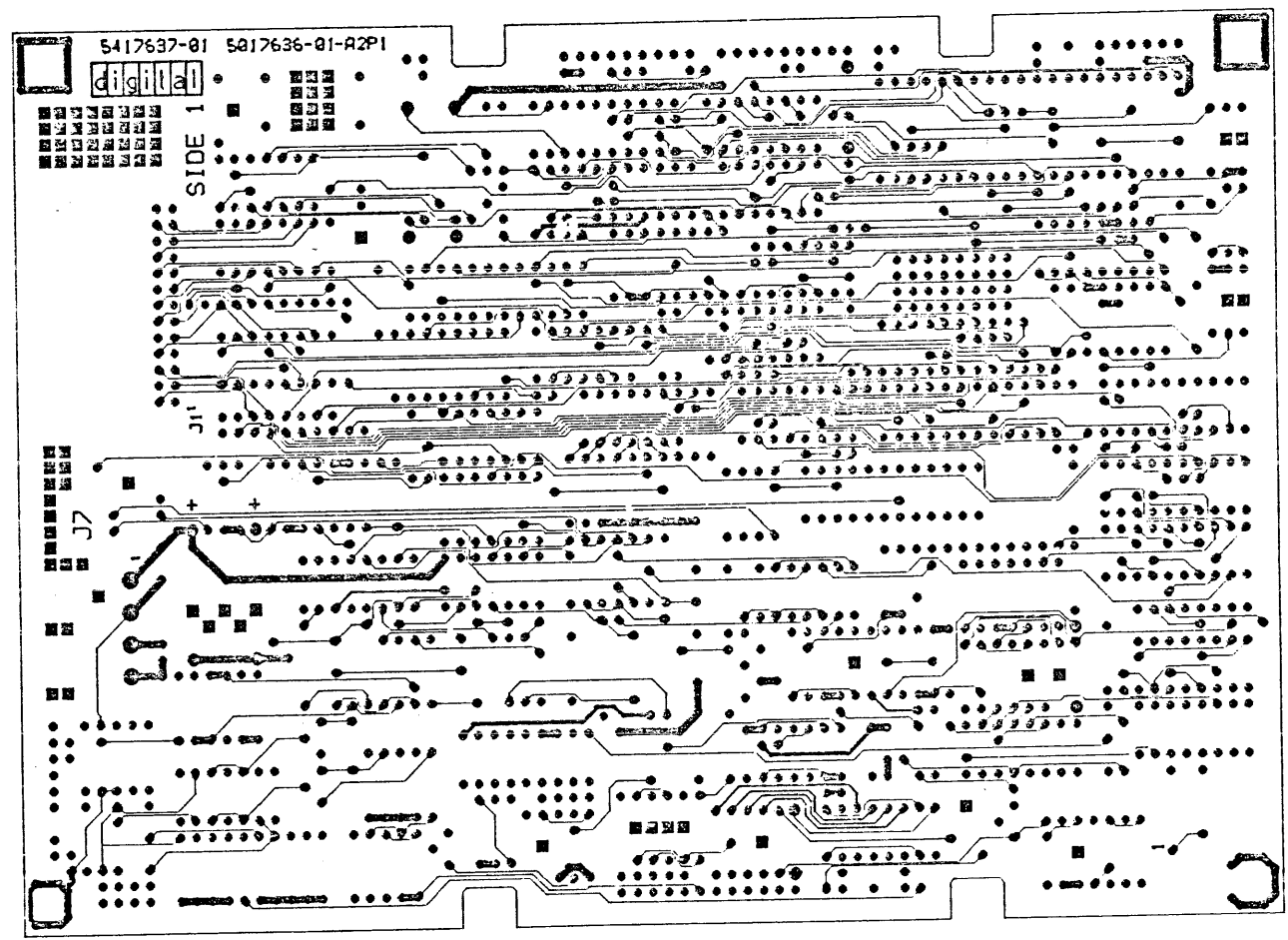
DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
UA	5417637-01	F
SCALE	SHEET 2 OF 5	

I WO# 4081264A

8 7 6 5 4 3 2 1

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LAYER 1  
VIEWED FROM SIDE 1



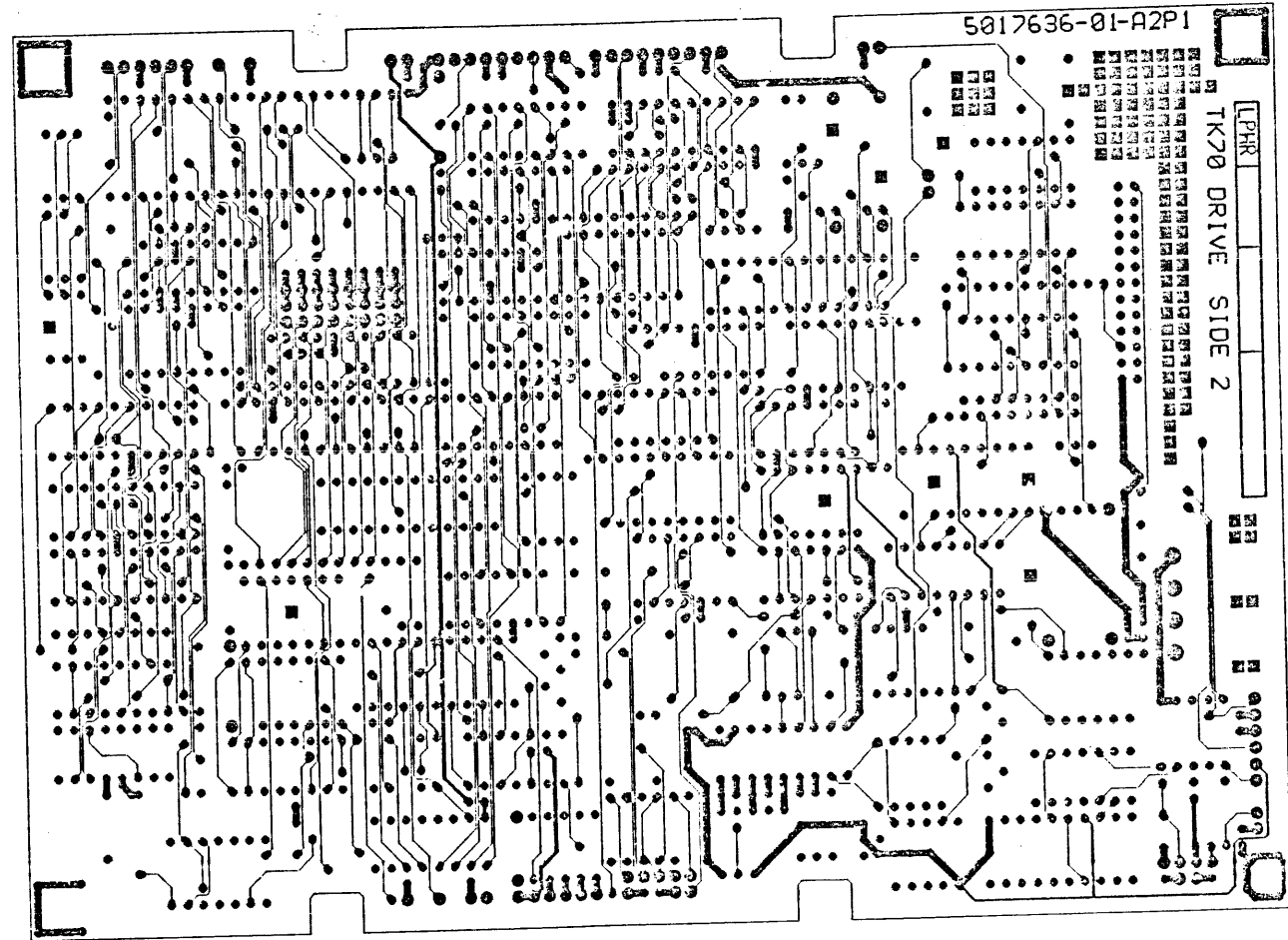
8 7 6 5 4 3 2 1

TITLE						DOCUMENT NUMBER	
TK70 DRIVE						SIZE CODE	NUMBER
						UA	5417637-0-0
						SCALE 2/1	SHEET 3 OF 5
						1 WO# 403764A	

8 7 6 5 4 3 2 1

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LAYER 4  
VIEWED FROM SIDE 2



C  
E  
A

0-0-549-145  
0001  
011

DOCUMENT NUMBER		
SYMBOL	NUMBER	REV
□ UA	5417637-0-0	F
SCALE 2/1	SHEET 4 OF 5	

8 7 6 5 4 3 2 1  
TK20 DRIVE  
1 WCI# 4017640

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## REWORK INSTRUCTIONS :

### ECO #3 - :

SIDE 1 (COMPONENT SIDE 1)

COMPONENT DELETES :

3-1 P/N 23-1M9-00 MICROCOMPUTER EPROM REF DES E3 QTY 1

COMPONENT ADDS :

3-2 P/N 23-2MA-00 MICROCOMPUTER ROM REF DES E3 NEW QTY 1

### ECO #4

SIDE 1 (COMPONENT SIDE 1)

COMPONENT DELETES :

4-1 P/N 23-157K5-00 K5-07 PAL REF DES E20 QTY 1

4-2 P/N 23-156K5-00 K5-07 PAL REF DES E22 QTY 1

COMPONENT ADDS :

4-3 P/N 23-200K5-00 K5-14 PAL REF DES E20 QTY 1

4-4 P/N 23-199K5-00 K5-14 PAL REV DES E22 QTY 1

### ECO #5

SIDE 1 (COMPONENT SIDE 1)

COMPONENT DELETES :

5-1 P/N 23-2MA-00 MICROCOMPUTER W/8 KBYTE EPROM REF DES E3 QTY 1

COMPONENT ADDS :

5-2 P/N 23-3MA-00 MICROCOMPUTER W/8 KBYTE EPROM REF DES E3 QTY 1

DOCUMENT NUMBER		REV
SIZE CODE	TOLERANCE	
<input type="checkbox"/> UA	5417637-01-0	F
SCALE 2:1	SHEET 5 OF 5	

TITLE  
TK70 DRIVE

1 WQ# 40876-44

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01 B05	REFERENCE DESIGNATORS
1	1 B-DD-5017636-0	50-17636-01		CIRCUIT DRILL & ETCH	1	C39
2	2	10-00064-00		3.9 MFD 10V +/-10% SOL	1	C15,C19,C25
3	3	10-01610-00		0.010MFD 50V +80/-20% Z5U C	3	C5
4	4	10-01776-00		1.0 MFD 35V +/-10% SOL	1	C26,C27
5	5	10-12084-01		8.0 MFD 25V +75/-10% 85	2	C38,C43
6	6	10-12784-00		0.047MFD 50V +80/-20% Z5U C	2	C40,C52
7	7	10-13466-01		10 PFD 50V +/- 5% NP0 C	2	C63,C64
8	8	10-13466-06		100 PFD 50V +/- 5% NP0 C	2	C9,C33,C49
9	9	10-13466-07		220 PFD 50V +/- 5% NP0 C	3	C20
10	10	10-13466-09		1000 PFD 50V +/-10% X7R C	1	C1-C4,C8,C10,C12-C14,C16-C18,
11	11	10-13466-22		0.10 MFD 50V +80/-20% Z5U C	31	CONT C21-C23,C29-C32,C34,C37, CONT C45-C47,C53,C54,C56,C59-C62
12	12	10-13466-24		47 PFD 50V +/- 5% NP0 C	1	C44
13	13	10-13466-26		120 PFD 50V +/- 5% NP0 C	2	C41,C42
14	14	10-13466-40		270 PFD 50V +/- 5% NP0 C	1	C55
15	15	10-13466-57		0.033MFD 50V +/-10% X7R C	1	C35
16	16	10-14265-02		0.33 MFD 50V +80/-20% Z5U C	3	C7,C28,C48
17	17	10-15573-01		5600 PFD 50V +/- 5% X7R C	2	C6,C11
18	18	10-18200-02		120 PFD 50V +/- 1% NP0 C	1	C50
19	19	10-18200-03		220 PFD 50V +/- 5% NP0 C	1	C51
20	20	10-26297-01		3300 PFD 50V +/- 5% X7R C	2	C24,C36
21	21	11-03441-00		VZ= 8.2 5% 400 MW 1N756A	1	D3
22	22			*** THIS ITEM IS NOT USED ***	-	
23	23	11-09991-00		VZ= 6.8 5% 400 MW 1N754A	1	D8
24	24	11-11577-00		PIV= 50 IO=200 MA - 4NS 1N4454	12	D2,D5,D6,D11,D14-D17,D19-D22
25	25	11-14117-00		PIV= 40 IO= 75 A -4NS 1N4152	3	D9,D10,D13
26	26	11-17166-00		PIV= 20 IO= 1.00A D0-35	2	D1,D24
27	27	11-22804-01		VZ= 4.7 1% 1N5522D	1	D7
28	28 SEE NOTE # 28	12-10385-01		PCB HEADER PIN	63	J601-J606,J608,J609,J611,J613,

REVISION HISTORY		KPL MODULE FORMAT SECTION A OF A		DRN: R. KOPPENAL	DIGITAL		
				DATE: 24-FEB-87			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	CHK'D: R. KOPPENAL	TITLE PARTS LIST		
---	INITIAL	A	[A] 01 [M]	DATE: 24-FEB-87	TK70 DRIVE		
A.H	5417637-SH001	B	[B] [N]	DES.ENG: DAVE BEAUREGARD	DOCUMENT NUMBER		
A.H	5417637-SH002	C	[C] [P]	DATE: 24-FEB-87	SIZE	CODE	NUMBER
A.H	5417637-SH003	D	[D] [Q]	RESP.ENG.: DAVE BEAUREGARD	K	PL	5417637-0-DBP
A.H	5417637-SH004	E	[E] [R]	DATE: 24-FEB-87	REV		
P.S	5417637-SH005	F	[F] [S]	MFG.ENG: G. KIAH	RELEASE DATE: 07-DEC-89		
			[H] [T]	DATE: 24-FEB-87	RELEASE STATUS: RELEASED		
			[J] [V]				
			[K] [W]				
			[L] [Y]				
		BASIC PART NUMBER: 5417637		ASSEMBLY NUMBER: D-UA-5417637-0-0		TOP DOCUMENT NUMBER: B-DD-5417637-0	
		FILE NAME: SH291F.PLS				EDIT # 3	

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LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01 B05	REFERENCE DESIGNATORS
29	29	12-15006-04		SKT, IC 20PIN DIP TIN	SOLD 3	CONT J802-J806, J808, J901-J904, J905,
30	30	12-15006-08		SKT, IC 40PIN DIP TIN	SOLD 1	CONT J908-J910, J1001-J1006, J1008,
31	31	12-15006-13		SKT, IC 24PIN DIP TIN	SOLD 1	CONT J1009, J3001, J3002, J3302-J3307,
32	32	12-16832-01		PCB, HEADER 26POS(2X13).100CC	90D 1	CONT J5001, J5002, TP2-TP8, TP10-TP16,
33	33	12-18783-00		JUMPER 02POS(1X02).100CC	8	CONT TP18-TP24
34	34	12-18855-00		PCB, HEADER 04POS(1X04).200CC	90D 1	XF15, XE20, XE22
35	35	13-00219-00		68.0 .25 W 5.0 %	CF 1	XE3
36	36	13-00247-00		120.0 .25 W 5.0 %	CF 1	XE10
37	37	13-00250-00		150.0 .25 W 5.0 %	CF 2	J1
38	38	13-00365-00		1.0 K .25 W 5.0 %	CF 4	W2-W8, W30
39	39	13-00391-00		1.50 K .25 W 5.0 %	CF 2	J7
40	40	13-00439-00		3.30 K .25 W 5.0 %	CF 5	R76
41	41	13-00479-00		10.0 K .25 W 5.0 %	CF 5	R3
42	42	13-00488-00		12.0 K .25 W 5.0 %	CF 1	R10, R16
43	43	13-00496-00		15.0 K .25 W 5.0 %	CF 1	R13, R17, R64, R65
44	44	13-01322-00		180.0 .25 W 5.0 %	CF 2	R84, R110
45	45	13-01401-00		750.0 .25 W 5.0 %	CF 2	R62, R63, R98, R103, R108
46	46	13-01808-00		22.0 K .25 W 5.0 %	CF 2	R18, R21, R36, R37, R69
47	47	13-01890-00		560.0 .25 W 5.0 %	CF 3	R11
48	48	13-02388-00		2.0 K .25 W 5.0 %	CF 5	R19
49	49	13-02391-00		20.0 K .25 W 5.0 %	CF 2	R83, R102
50	50	13-02396-00		150.0 K .25 W 5.0 %	CF 1	R6, R14
51	51	13-02411-00		511.0 .25 W 1.0 % RN55D-F10	1	R77, R78
52	52	13-02466-00		100.0 K .25 W 5.0 %	CF 1	R75, R100, R101
53	53	13-02887-00		130.0 .25 W 1.0 % RN55D-F10	1	R12, R20, R25, R50, R96
54	54	13-02931-00		49.90 .25 W 1.0 % RN55D-F10	1	R46, R51
55	55	13-02955-00		750.0 .25 W 1.0 % RN55D-F10	3	R24
56	56	13-02956-00		196.0 .25 W 1.0 % RN55D-F10	1	R56
57	57	13-03114-00		1.0 K .25 W 1.0 % RN55D-F10	3	R90
58	58	13-03176-00		1.60 K .25 W 5.0 %	CF 1	R39
59	59	13-03178-00		620.0 .25 W 5.0 %	CF 2	R5
60	60	13-03312-00		10.0 K .25 W 1.0 % RN55D-F10	1	R48, R73, R105
61	61	13-04839-00		51.0 K .25 W 5.0 %	CF 1	R70
62	62	13-04866-00		2.0 K .25 W 1.0 % RN55D-F10	2	R42, R79, R80
63	63	13-05253-00		7.15 K .25 W 1.0 % RN55D-F10	2	R93
64	64	13-05336-00		200.0 K .25 W 1.0 % RN55D-F10	1	R9, R81
65	65	13-05426-00		392.0 K .25 W 1.0 % RN55D-F10	1	R8
66	66	13-09595-00		1.0 M .25 W 5.0 %	CF 2	R7
67	67	13-10631-00		2.21 K .25 W 1.0 % RN55D-F10	1	R57, R94, R95, R104
68	68	13-10634-00		2.67 K .25 W 1.0 % RN55D-F10	2	R54, R58
69	69	13-10635-00		13.0 K .25 W 1.0 % RN55D-F10	1	R106, R107
70	70	13-11867-00		.50 .3 W 1.0 %	WW 2	R45
71	71	13-12545-00		2.32 K .25 W 1.0 % RN55D-F10	5	R26, R91
72	72	13-12546-00		16.50 K .25 W 1.0 % RN55D-F10	1	R34
73	73	13-12930-00		5.10 K .25 W 5.0 %	CF 2	R52, R53

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TK70 DRIVE		K	PL	5417637-0-DBP	F

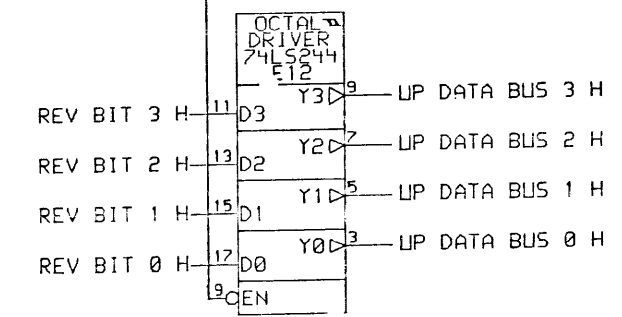
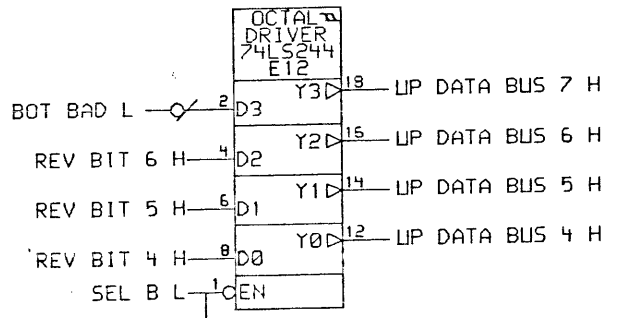
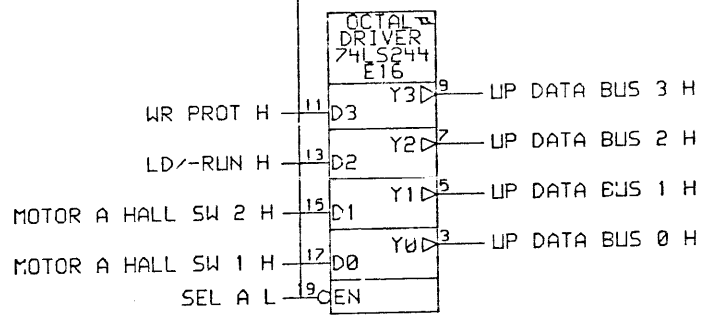
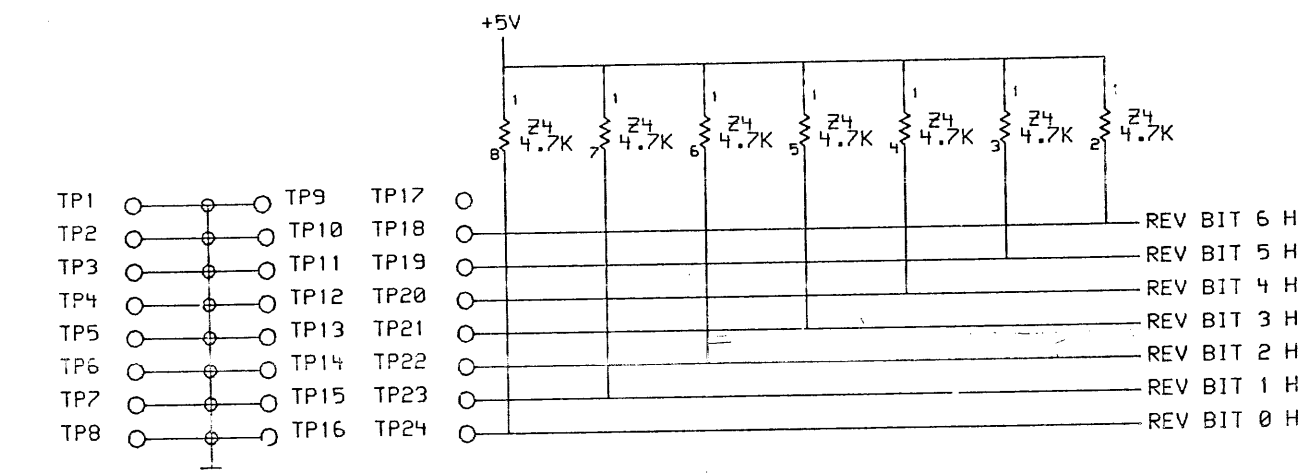
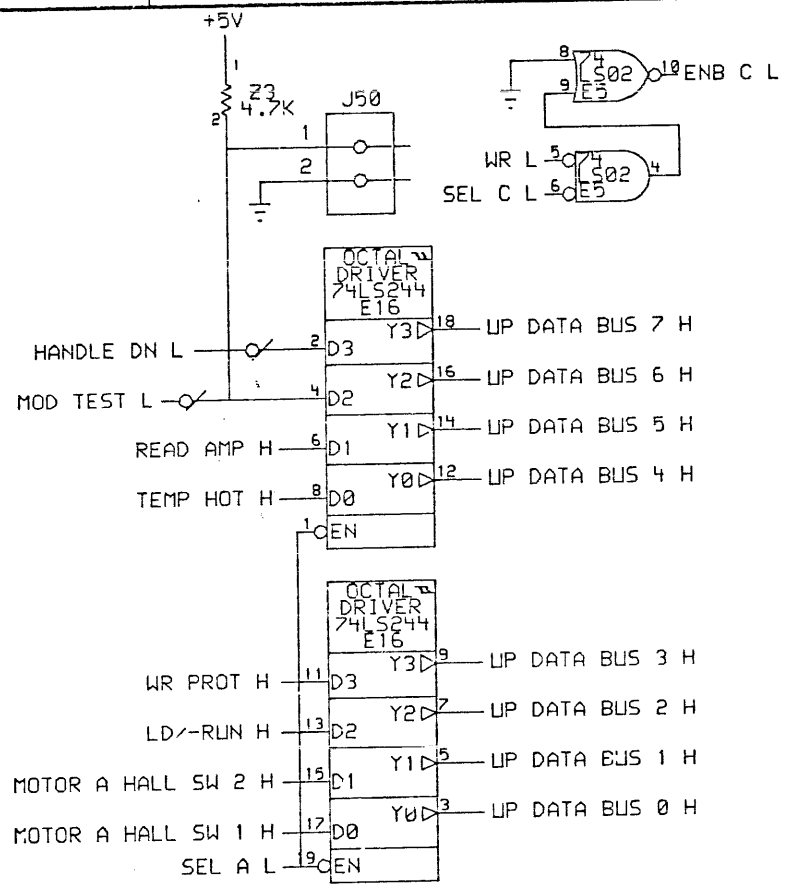
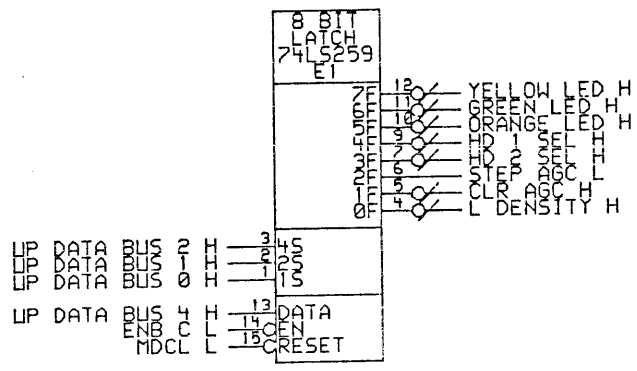
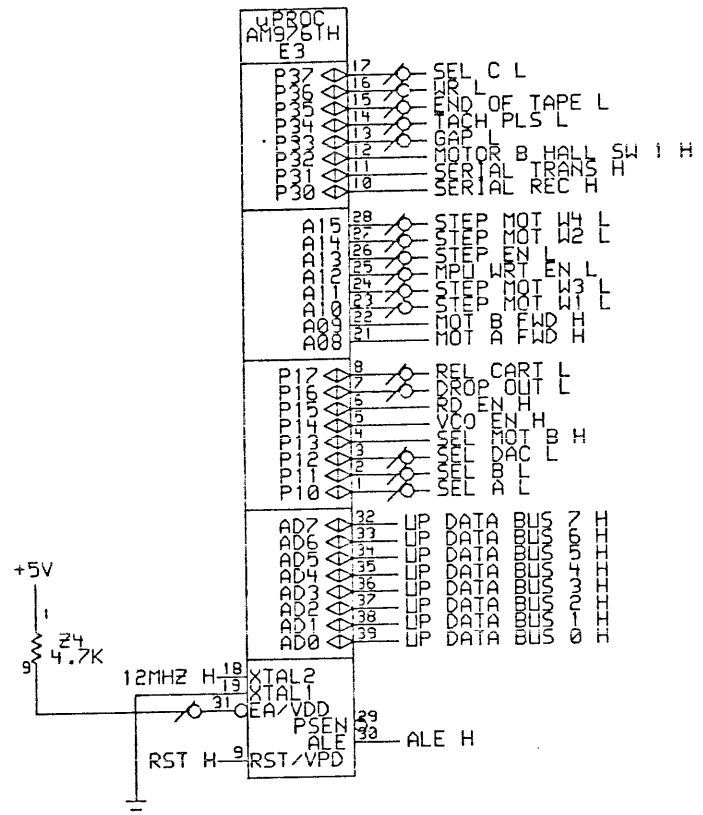
LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	REFERENCE DESIGNATORS
74	74		13-13154-00	124.0	K .25 W 1.0 % RN55D-F10	1	R31
75	75		13-13155-00	604.0	.25 W 1.0 % RN55D-F10	1	R15
76	76		13-13590-00	1.50	K .25 W 1.0 % RN55D-F10	1	R68
77	77		13-13596-00	20.0	K .25 W 1.0 % RN55D-F10	2	R38,R40
78	78		13-14251-00	61.90	K .25 W 1.0 % RN55D-F10	2	R29,R44
79	79		13-14387-00	3.90	M .25 W 5.0 % CF	1	R32
80	80		13-14516-00	200.0	K .25 W 5.0 % CF	2	R61,R92
81	81		13-15271-00	154.0	.25 W 1.0 % RN55D-F10	1	R22
82	82		13-16395-00	R. NET	4.7K- 9 2.0	2	Z3,Z4
83	83		13-16836-00	402.0	.25 W 1.0 % RN55D-F10	2	R23,R85
84	84		13-16842-00	6.34	K .25 W 1.0 % RN55D-F10	2	R88,R89
85	85		13-17522-00	1.0	.25 W 5.0 % CF	1	R66
86	86		13-18150-10	4.02	K .25 W 1.0 % RN55D-F10	1	R74
87	87		13-19531-01	221.0	.25 W 1.0 % RN55D-F10	2	R72,R82
88	88		13-20414-01	2.0	M .25 W 5.0 % CF	1	R30
89	89		13-20415-03	249.0	K .25 W 1.0 % RN55D-F10	1	R28
90	90		13-20415-04	499.0	K .25 W 1.0 % RN55D-F10	1	R27
91	91		13-22716-01	R. NET	120.0 - 7 2.0	2	Z2,Z5
92	92		13-23770-01	R. NET	220.0 - 8 270.0 - 8 2.0	1	Z1
93	93		15-13490-00	2N 4403	PNP 350MW SI-40 30	3	Q1-Q3
94	94		15-14962-00	TPQ2907	PNP 500MW SI 40 100	1	E30
95	95		15-16287-02	ULN2003-A	NPN DARLINGTON ARRAY	1	E33
96	96		15-17364-01	3083	NPN ARRAY,16PIN DIP	2	E8,E24
97	97		15-17998-00	3127	NPN 425MW ARRAY 16PIN	1	E28
98	98		15-24009-01	IFRD9123	FET 60V .8A P-CHNNL 4	1	E29
99	99		16-11317-00	470	UH 5% 120MA Z(MIN)=65	2	L5,L6
100	100		16-12946-07	220	UH 10% Q MIN=26@.79MHZ	4	L1-L4
101	101		18-11660-21	OSCILLATOR, XTAL	24.000 MHZ	1	Y1
102	102		19-10236-00	DEC 7426	NAND GATE-QUAD 2IN,0	1	E25
103	103		19-10532-00	74S00	NAND GATE-QUAD 2IN	1	E9
104	104		19-10544-00	74S74	FF-D DUAL,EDGE TRIGG	1	E13
105	105		19-11911-00	DEC 74S124	OSCILLATOR,DUAL VOLT	1	E27
106	106		19-12107-01	324ANOP	AMP,QUAD	1	E6
107	107		19-12108-00	LM339	VOLT CMPRTR,QUAD	1	E19
108	108		19-12801-00	LS02	NOR-GATE-QUAD 2IN	1	E5
109	109		19-12850-00	LS164	SHIFT REG. 8BIT SERI	1	E4
110	110		19-12860-00	LS259	LATCH 8BIT	1	E1
111	111		19-14082-00	74S163	COUNTER,SYNCH UP/DOW	1	E26
112	112		19-14560-00	LS368	DRIVER,BUS,HEX,TRI-S	2	E11,E17
113	113		19-15123-00	26LS32	RECEIVER,QUAD,EIA RS	1	E14
114	114		19-15193-00	LS244	DRIVER,LINE,OCTAL,TR	2	E12,E16
115	115		19-15851-00	26LS31	DRIVER,QUAD,EIA RS 4	1	E7
116	116		19-18177-00	78L05AC	VOLT REG,FIX +5V	1	E34
117	117		19-18277-00	3470	READ AMP,FLOPPY DISK	1	E31
118	118		19-19006-00	LM 336A	VOLT REF. 2.49V 1%	1	D12
119	119		19-19684-01	LM 385B2	PREC VOLT REF. 1.23	1	D4
120	120		19-21283-01	3799	PNP 900MW 60V 50MA	1	E32
121	121		19-22108-01	7528	DAC, 8BIT,MULTI	1	E2
122	122		21-13614-00	4024B	COUNTER-BINARY 7STAG	1	E18
123	123		21-26235-01	DG302A	SWITCH,CMOS ANALOG,T	1	E23

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TK70 DRIVE		K	PL	5417637-0-DBP	F

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	REFERENCE DESIGNATORS
124	124		23-K8	-02	*** THIS ITEM IS NOT USED ***	-	
125	125		23-156K5-00		*** THIS ITEM IS NOT USED ***	-	
126	126		23-157K5-00		*** THIS ITEM IS NOT USED ***	-	
127	127		23-172K5-00		K5-07 PAL	1	E15
128	128		23-M9	-01	*** THIS ITEM IS NOT USED ***	-	
129	129		11-16824-03		10PF VARIABLE CAP DIODE 5%	1	D23
130	130		13-05123-00		215.0 .25 W 1.0 % RN55D-F10	1	R47
131	131		13-10632-00		2.37 K .25 W 1.0 % RN55D-F10	2	R71,R86
132	132		13-12626-00		2.49 K .25 W 1.0 % RN55D-F10	1	R43
133	133		13-05126-00		619.0 .25 W 1.0 % RN55D-F10	1	R49
134	134		13-14041-00		3.01 K .25 W 1.0 % RN55D-F10	1	R59
135	135		13-02751-00		30.0 .25 W 5.0 % CF	1	R87
136	136		13-00197-00		33.0 .25 W 5.0 % CF	1	R112
137	137		23-1M9	-00	*** THIS ITEM IS NOT USED ***	-	
138	138		23-71K8	-00	K8-02 PAL,HIGH SPEE	1	E10
139	139		11-14507-00		VZ= 24.0 5% 1 W 1N4749A	1	D18
140	140		23-2MA	-00	*** THIS ITEM IS NOT USED ***	-	
141	141		23-199K5-00		K5-14 PAL	1	E22
142	142		23-200K5-00		K5-14 PAL	1	E20
143	143		23-3MA	-00	MA-01 ROM MICR	1	E3

28 NOTE: QTY IS 85. ALSO USED ON J103-01,J103-03,J100-01 THRU J100-09,J100-11 THRU J100-19,J100-21,J100-22.

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TK70 DRIVE		K	PL	5417637-0-DBP	F



CHK	CHANGE NO.	REV.
RK	SH001	B
RK	SH004	C

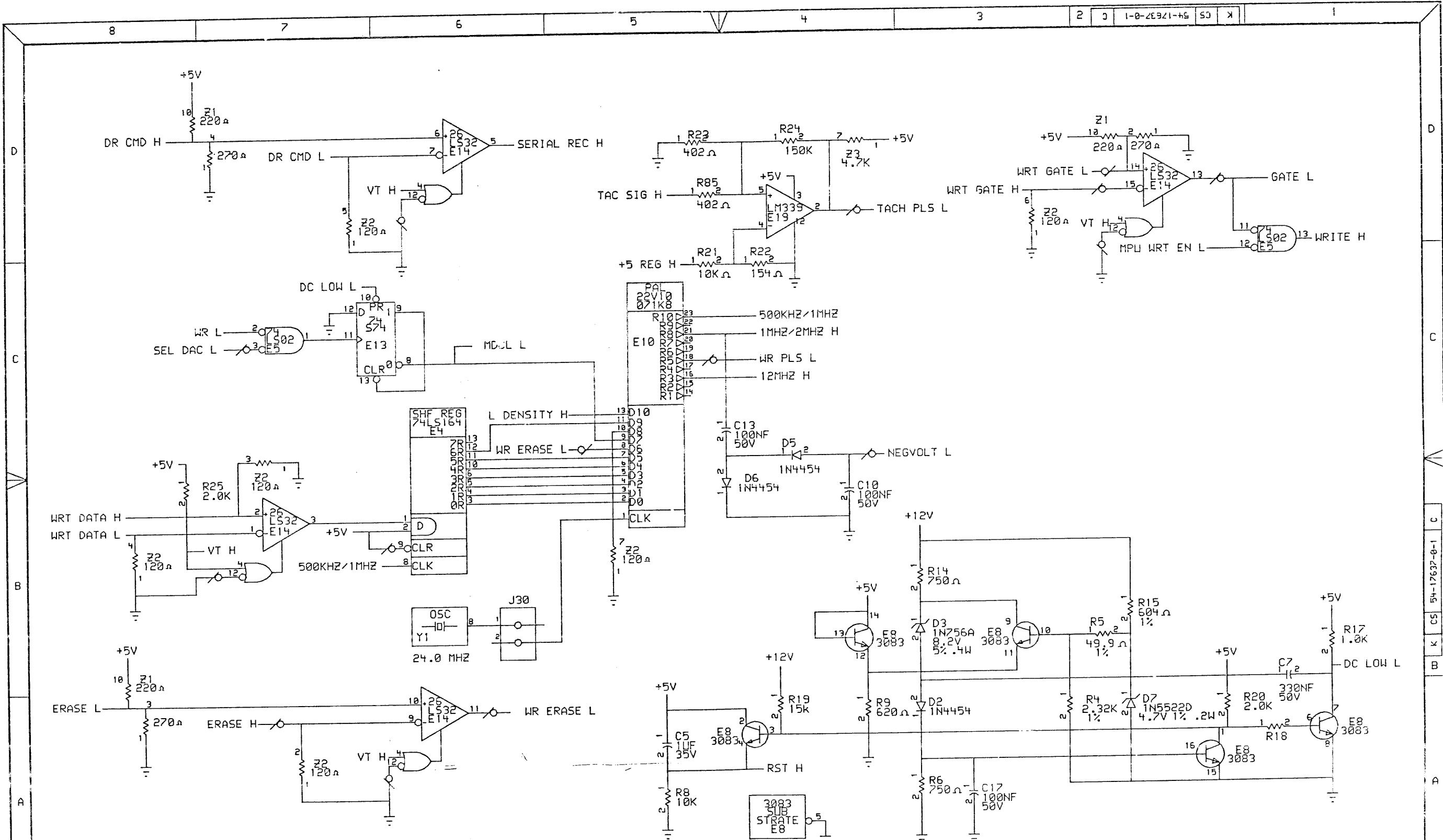
# TK70 DRIVE MODULE

**digital**  
FIRST USED ON OPTION/MODEL:

DATE	BY	DATE	BY
29-APR-87	S. Alessi	29-APR-87	D. Beuregard
29-APR-87	S. Alessi		

TITLE	SIZE	CODE	NUMBER	REV.
TK70	K	CS	54-17637-0-1	C

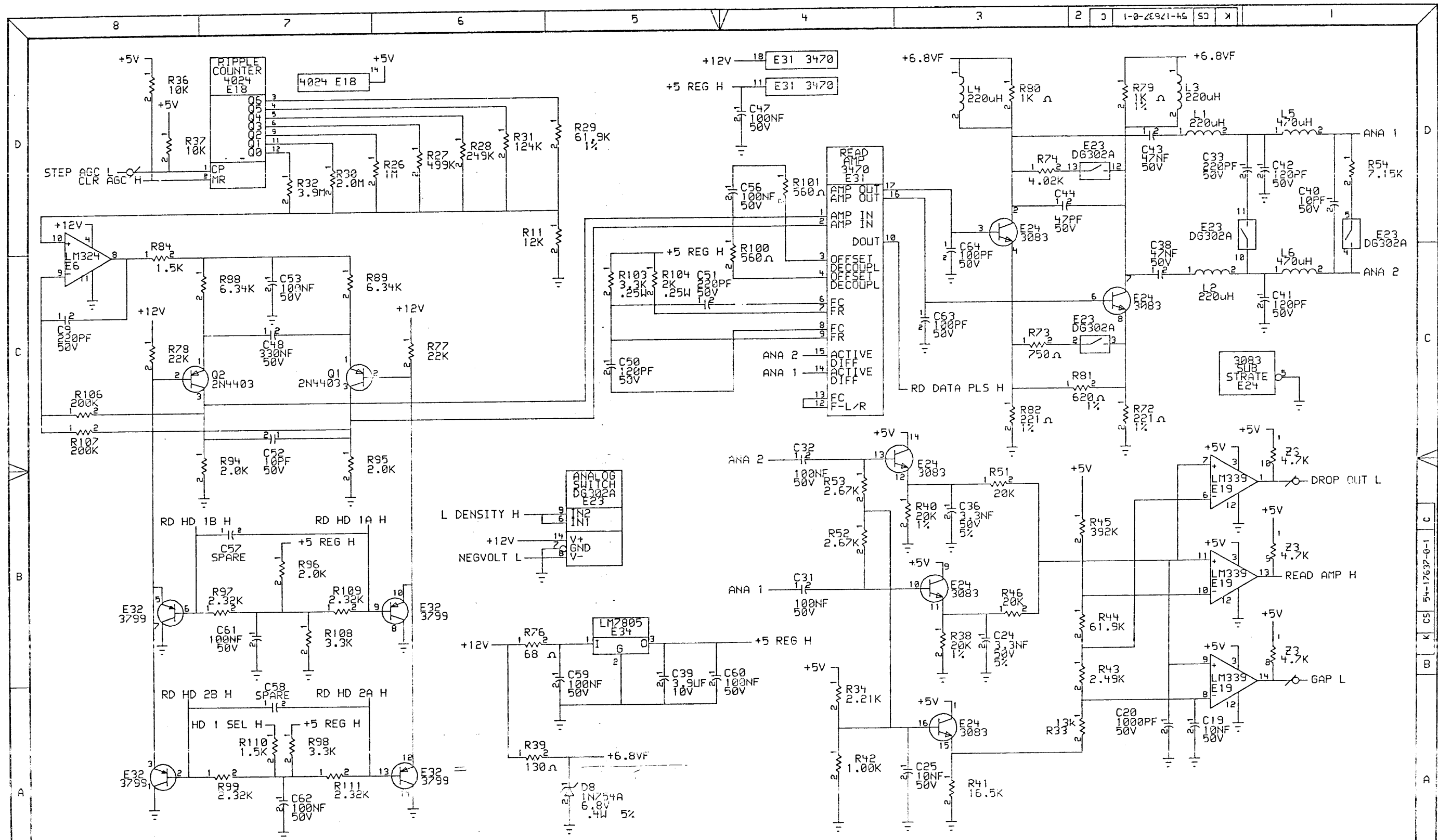
C  
CS 54-17637-0-1  
K  
B  
A



REV	DATE	BY	CHK	CHANGE NO	REV

# TK70 DRIVE MODULE

	DRN	S. Alessi	29-APR-87	ENG	D. Beauregard	29-APR-87	TITLE:	TK70
	CHK'D	S. Alessi	29-APR-87	DATE				
SHEET		2		OF		7		
FIRST USED ON OPTION MODEL:				TOP DOCUMENT NUMBER:		B-DD-5417637-0		
SIZE	CODE	NUMBER		REV.				
K	C5	54-17637-0-1		C				



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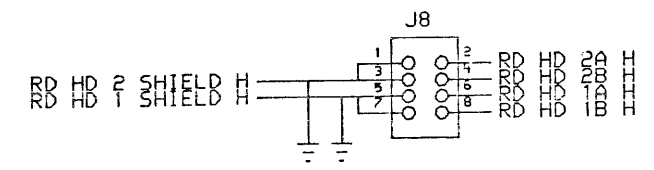
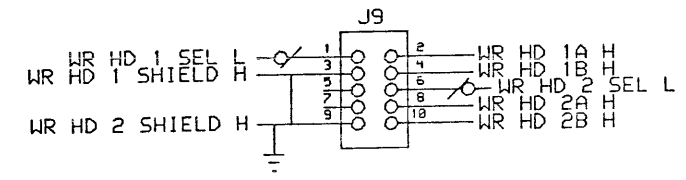
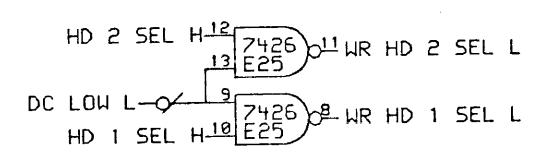
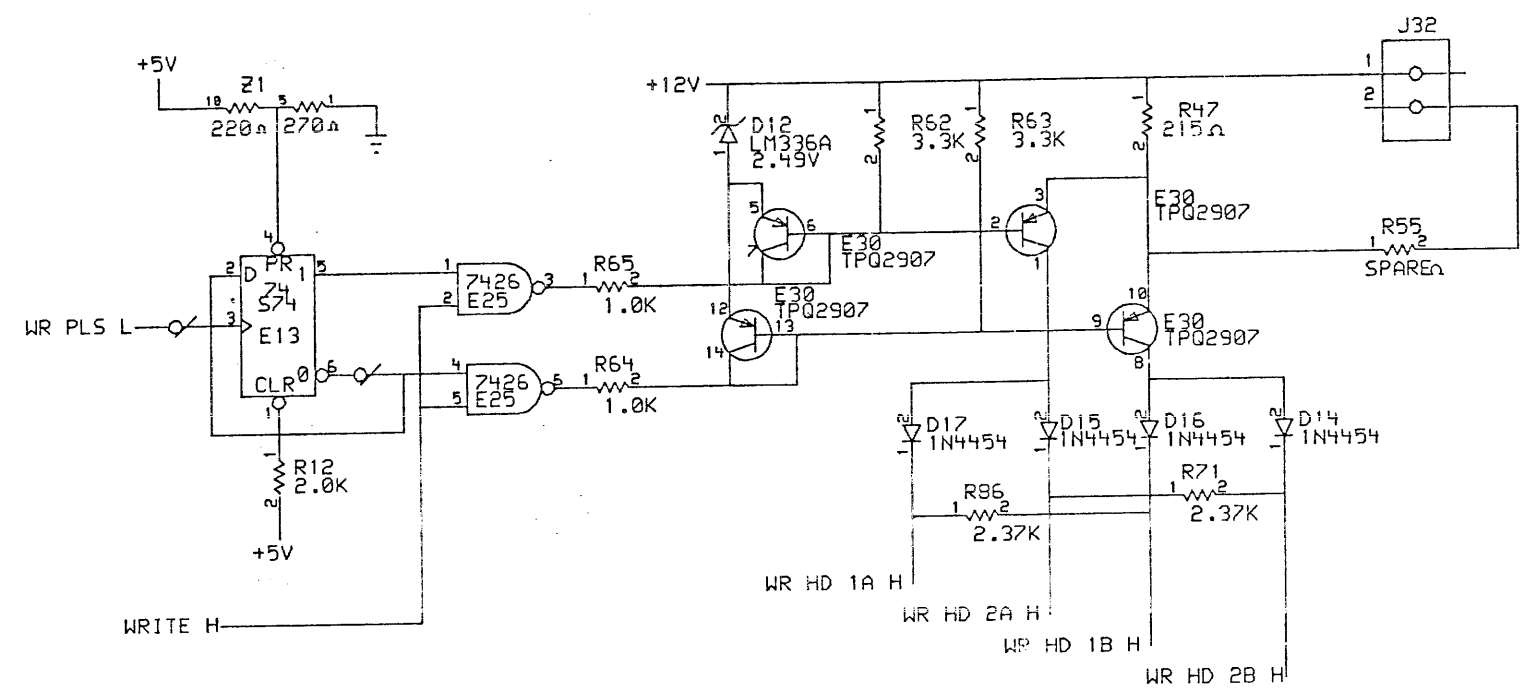
REVISION	CHK	CHANGE NO.	REV

# TK70 DRIVE MODULE

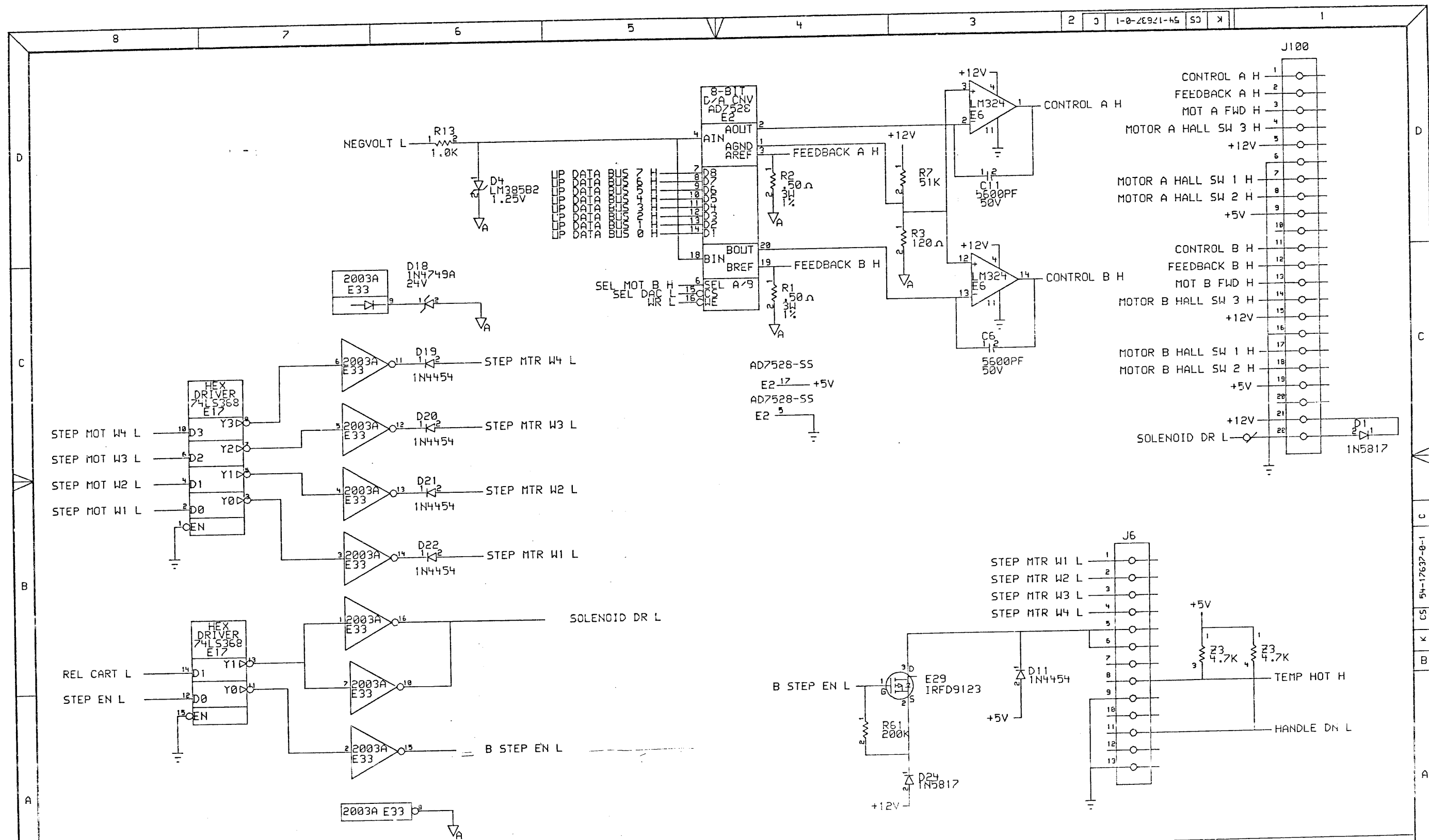
**digital**  
 DORN S.Alessi 29-APR-87  
 CHK S.Alessi 29-APR-87  
 USRA: FIRST USED ON OPTION MODEL

DATE: 29-APR-87  
 DATE: 29-APR-87  
 TOP DOCUMENT NUMBER: B-DD-5417637-0

ENG: D. Beaugrand  
 BC & S LOCATION: 3 OF 7  
 SHEET: 3  
 TITLE: TK70  
 SIZE: K  
 CODE: CS  
 NUMBER: 54-17637-0-1  
 REV: C



C 54-17637-0-1  
 CS  
 K  
 B  
 A



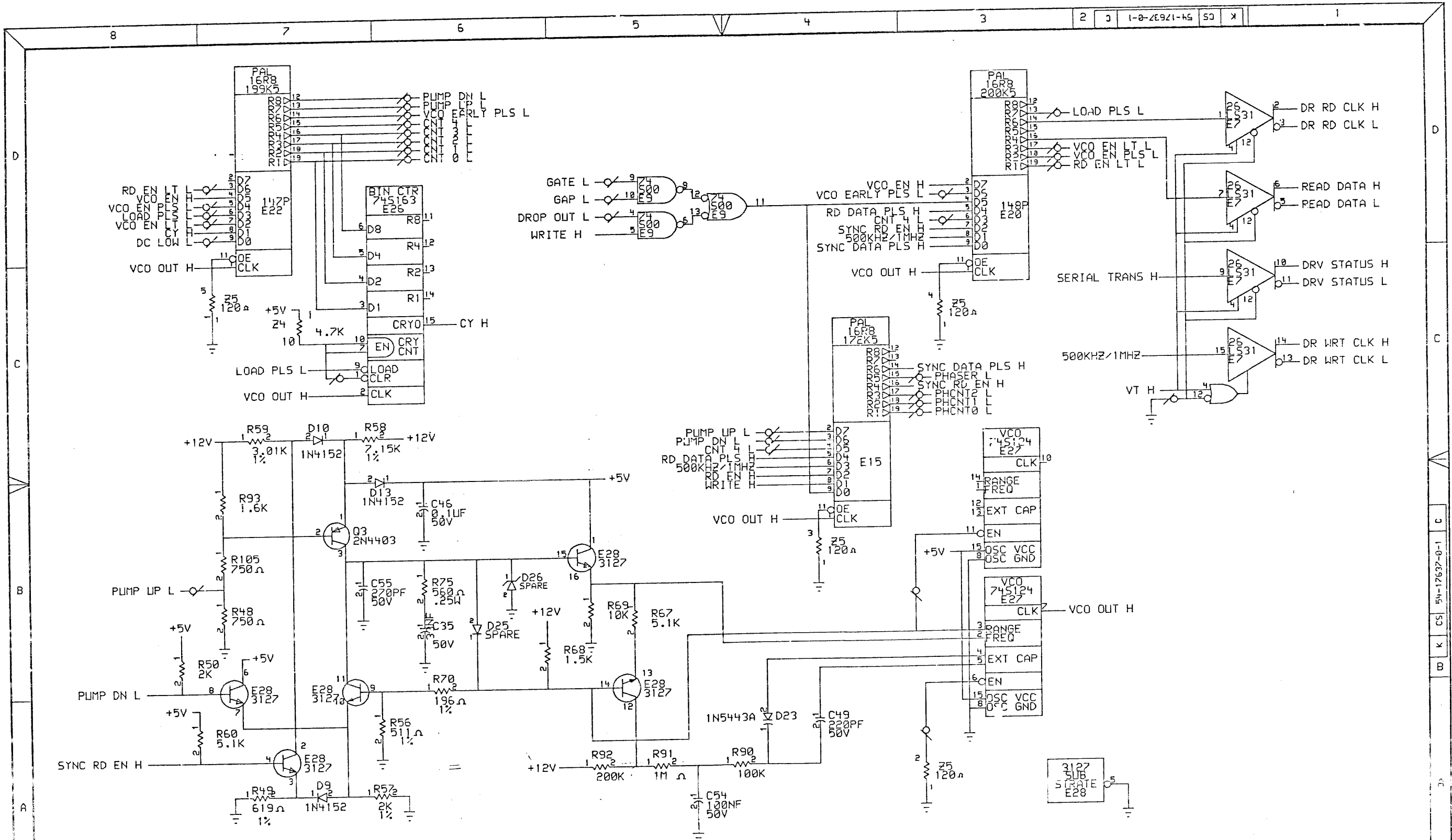
# TK70 DRIVE MODULE

	DRN S. Alessi	DATE 29-APR-87	DESIGN D. Beaugard	DATE 29-APR-87	TITLE: TK70
	CHK S. Alessi	DATE 29-APR-87	BOARD LOCATION:	SHEET 3 OF 7	NUMBER 54-17637-0-1
FIRST USED ON OPTION/MODEL:	TOP DOCUMENT NUMBER: B-DD-5417637-0			SIZE CODE K CS	REV. C

CHECK CRANKS AND SPECIFICATIONS. DIGITAL EQUIPMENT CORPORATION 300 BROADWAY BOSTON, MASSACHUSETTS 02108 (617) 552-1000	REVISION CHK CHANGE NO REV
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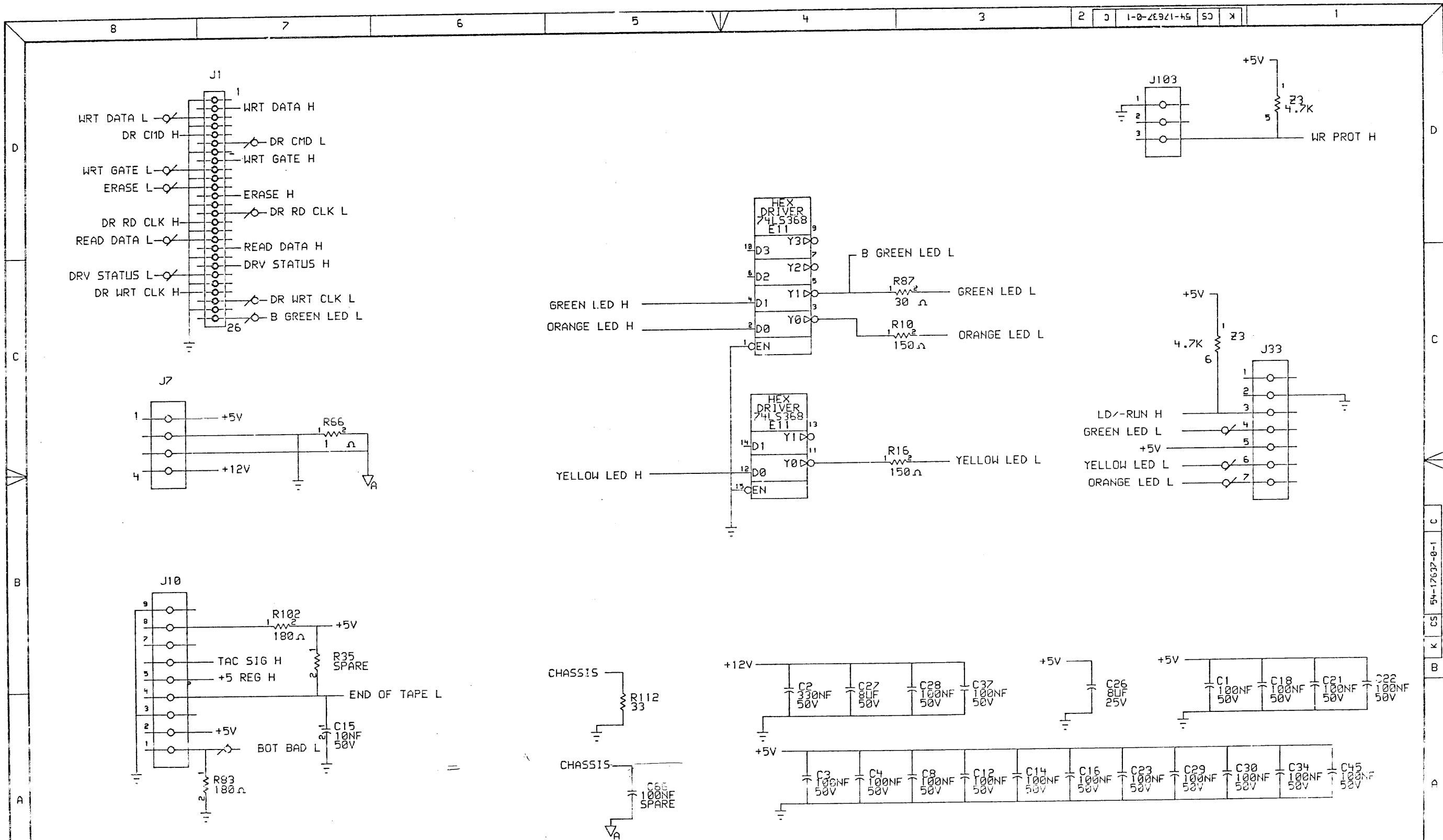
C  
 54-17637-0-1  
 CS  
 K  
 B  
 A





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C 54-17637-0-1  
 CS  
 K  
 B



REV	CHG	NO	REV

# TK70 DRIVE MODULE

	DRN: S.Alessi CHK'D: S.Alessi	DATE: 29-APR-87 DATE: 29-APR-87	ENG: D. Beauregard ECN: 17637-0-1	DATE: 29-APR-87 SHEET: 7 OF 7	TITLE: TK70
	FIRST USED ON OPTION/MODEL:	TOP DOCUMENT NUMBER: B-DD-5417637-0	SIZE: K CODE: CS	NUMBER: 54-17637-0-1	REV: C

54-17637-0-1 C CS K B A

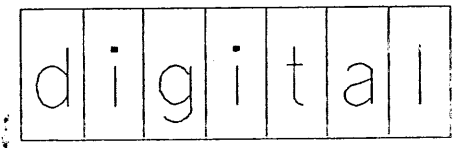
DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																
				A1	A2	A3														
		5418272-01	PC BD. SWITCH/LED	A1	A2	A3														
D-UA-5418272-0-0	1		PC BD. SWITCH/LED	A	B	INA														
K-PL-5418272-0-DBP	1		PARTS LIST (SH454A,PLS)	A	B	C														
K-CS-5418272-0-DBX	-		CIRCUIT SCHEMATIC DATA BASE	A	A	A														
K-CS-5418272-0-1	1		CIRCUIT SCHEMATIC	A	A	A														
K-PC-5418272-0-DBV	-		P. C. DESIGN DATA BASE	A	B	C														
		5018271-01	ETCH CIRCUIT BOARD	A1	A1	B1														
K-DD-5018271-0	1		DRAWING DIRECTORY	A	A	INA														
K-UA-5418272-0-0	2		PC BD. SWITCH/LED	-	-	C														
K-DD-5018271-0-DBV	1		DRAWING DIRECTORY	-	-	B														

NOTES:

REVISION HISTORY		A	B	C
DATE	ECO NO	INIT	SH001	SH002
			06/88	12/88

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1987



DRN.	L. BARRETT	DATE	10JUN87	TITLE: PC BD. SWITCH/LED			
CHKD.	R. KOPPENAL	DATE	10JUN87	DOCUMENTATION NUMBER			
DES. ENG.	D. BEAUREGARD	DATE	10JUN87	SIZE	CODE	NUMBER	REV.
RESP. ENG.	A.M. HICKEY	DATE	10JUN87	K	DD	5418272-0-DBV	C
MFG. ENG.	FRED BELLEVEAU	DATE	10JUN87	SHEET 1		OF 1	

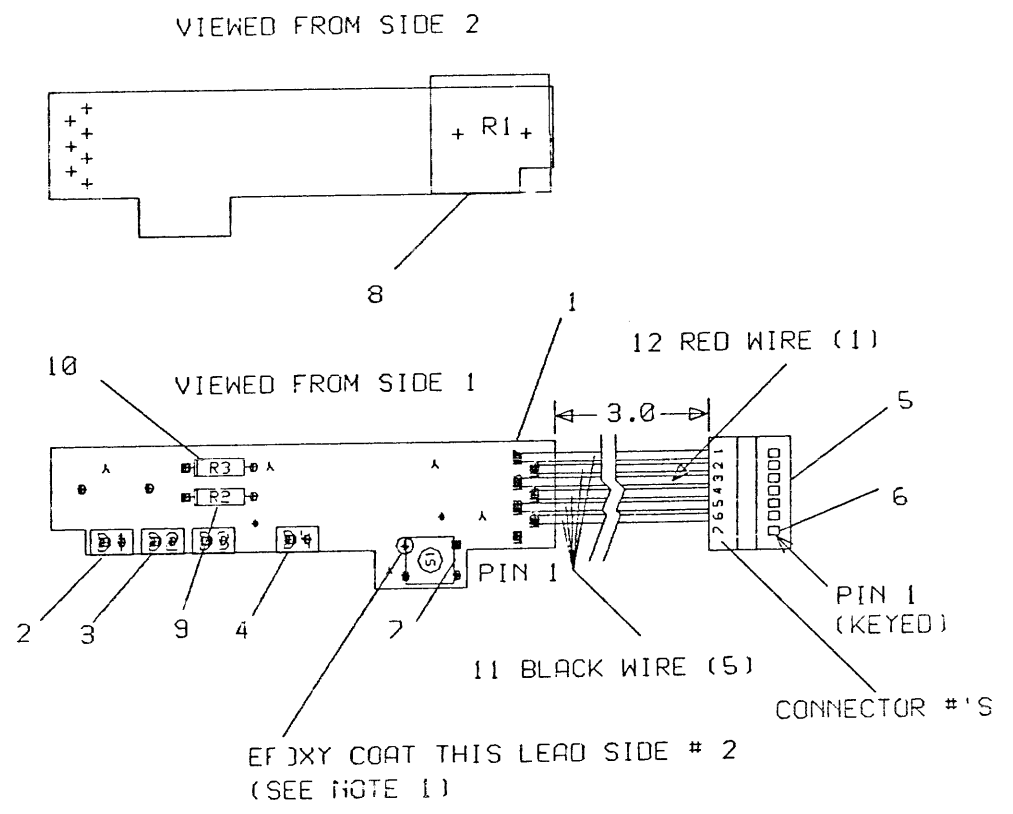
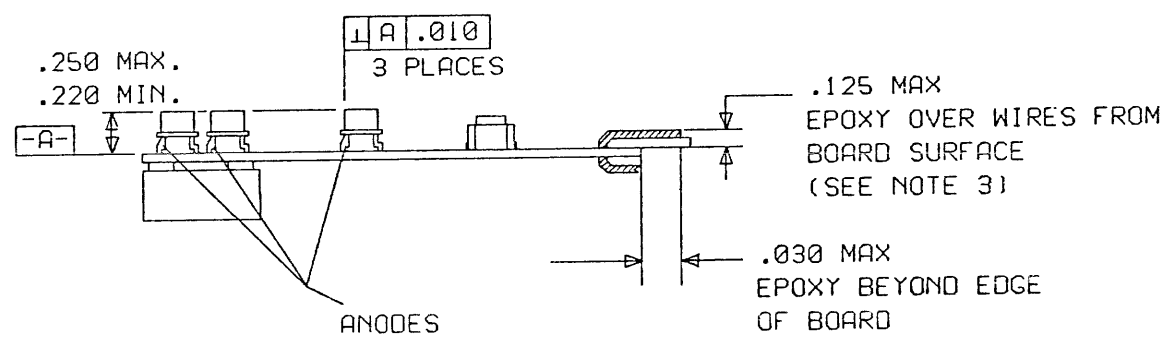
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# CONVERSION CHARTS

PIN ASSIGNMENT PER SCHEMATICS 54-17637-0-1	
1	KEY
2	GROUND
3	LD/RUN H
4	GREEN LED L
5	+5V
6	AMBER LED L
7	ORANGE LED L

CONNECTOR ASSIGNMENT PER UA 54-18272-0-0	
7	KEY (NO WIRE)
6	GROUND (BLACK WIRE)
5	LD/RUN/H (BLACK WIRE)
4	GREEN LED L (BLACK WIRE)
3	+5V (RED WIRE)
2	AMBER LED L (BLACK WIRE)
1	ORANGE LED L (BLACK WIRE)

- NOTES:
1. COAT ONE LEAD ON S1, AS SHOWN, WITH EPOXY. EPOXY TO BE USED - P/N 49-01755-01
  2. CONNECTOR WIRES TO BE FROM SIDE 1
  3. EPOXY COAT WIRES, AS SHOWN, TO CIRCUIT BOARD FOR RESTRAINING PURPOSES. EPOXY TO BE USED - P/N 49-01755-01



CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV	CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV
RK	L. BARRETT	P. BARTON	SH001	6/88	B						
RK	S. EVANS	J. FLEMING	SH002	9/88	C						

- NOTES:
1. SOLDER AND WORKMANSHIP PER DEC STD 116.
  2. A HORIZONTAL FORCE OF 3 LBS. ON THE CABLE SHALL NOT INDUCE UNDUCE STRESSES IN THE SOLDER AT THE P.C. BOARD TERMINATIONS.
  3. PRIOR TO ASSEMBLY, THE SHORT LEAD ON ITEMS 2, 3 AND 4 ARE THE CATHODES.

4. D3 IS SPARE DIODE LOCATION.
5. PIN 7 ON CONN IS POSITION J33 PIN 1 ON CIRCUIT BRD.
6. SEE MD 5418271 FOR LOC. TO SHEAR OUTSIDE OF CROPMARKS.

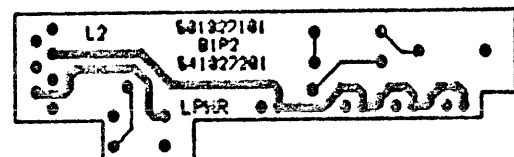
SIGNATURES		DATE
DRAWN	LAURIE BARRETT	19FEB87
CHECKED	ROBERT KOPFENAL	12JUN87
MECH ENG	PETER BARTON	12JUN87
PROJ ENG	ANN MARIE HICKEY	12JUN87
PROD	CHRIS SHEENT	19JUN87

digital		
TITLE PC BG. SWITCH/LED		
SIZE/CODE	NUMBER	REV
K UA	5418272-0-0	C
SHEET 1 OF 2		
TOP DOC NO K-00-5418272-0-0-01		

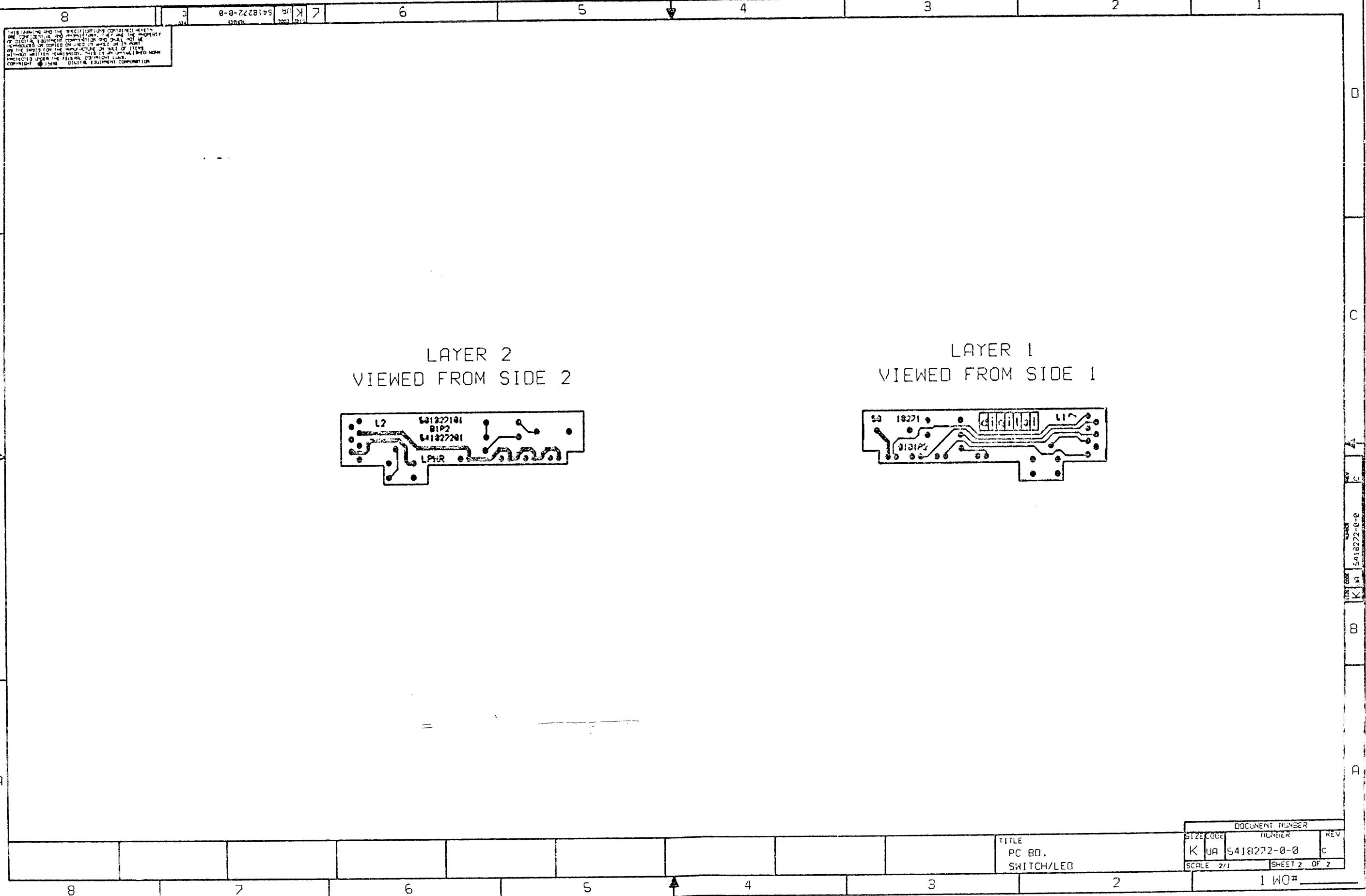
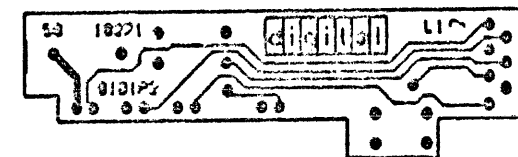
1 WO#

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LAYER 2  
VIEWED FROM SIDE 2



LAYER 1  
VIEWED FROM SIDE 1



TITLE		DOCUMENT NUMBER	
PC BD. SWITCH/LED		SCALE 2/1	REV C
K UA 5418272-0-0		SHEET 2 OF 2	
		1 WO#	

AUTOMATED BY VAXKPL (V2.0)

PARTS LIST

SHEET A1 OF A1

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV 01 A3	REFERENCE DESIGNATORS
1	1 K-DD-5018271-0-DBV	50-18271-01		DRILL AND ETCH	1	
2		11-28095-01		LED ORANGE T1 3MOD	1	D1
3		11-28095-02		LED YELLOW T1 3MCD	1	D2
4		11-28095-03		LED GREEN T1 4MCD	1	D4
5		12-18296-18		CONN, IDC 07POS(1X07).100CC GOL	1	
6		12-19389-01		KEYING PLUG	1	
7		12-27031-01		SW,PB SPST MOM 50M	1	S1
8		12-28033-01		TRANSDUCER,MINI,PIEZO-CER,PC MNT	1	R1
9		13-00247-00		120.0 .25 W 5.0 % CF	1	R2
10		90-09185-00		JUMPER, WIRE, INSULATED, BLACK B	1	R3
11		91-07854-00		WIRE, 26AWG( 7/34)IPVC	5	
12		91-07854-22		WIRE, 26AWG( 7/34)IPVC	1	
13		49-01755-01		ADHESIVE,CURING FOR STRAIN RELIE	A/R	

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF A	DRN: A.SPAULDING	D I G I T A L		
ENG:	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 27-FEB-86	TITLE PARTS LIST		
---	INITIAL	A	[A]	01	[M]	PC BD. SWITCH/LED		
A.H.	5418272-SH001	B	[B]		[N]	DOCUMENT NUMBER		
P.B.	5418272-SH002	C	[C]		[P]	SIZE	CODE	NUMBER
			[D]		[Q]	K	PL	5418272-0-DBP
			[E]		[R]	REV		
			[F]		[S]	C		
			[H]		[T]	RELEASE DATE: 08-DEC-88		
			[J]		[V]	RELEASE STATUS: RELEASED		
			[K]		[W]	TOP DOCUMENT NUMBER:		
			[L]		[Y]	K-DD-5418272-0-DBV		
BASIC PART NUMBER:		ASSEMBLY NUMBER:		EDIT #				
5418272		K-UA-5418272-0-0		3				
FILE NAME: SH454C.PLS								

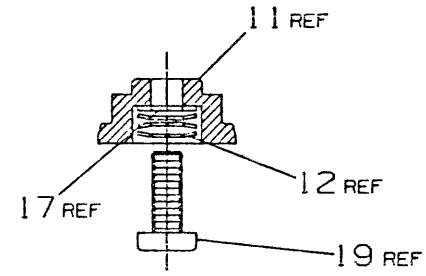
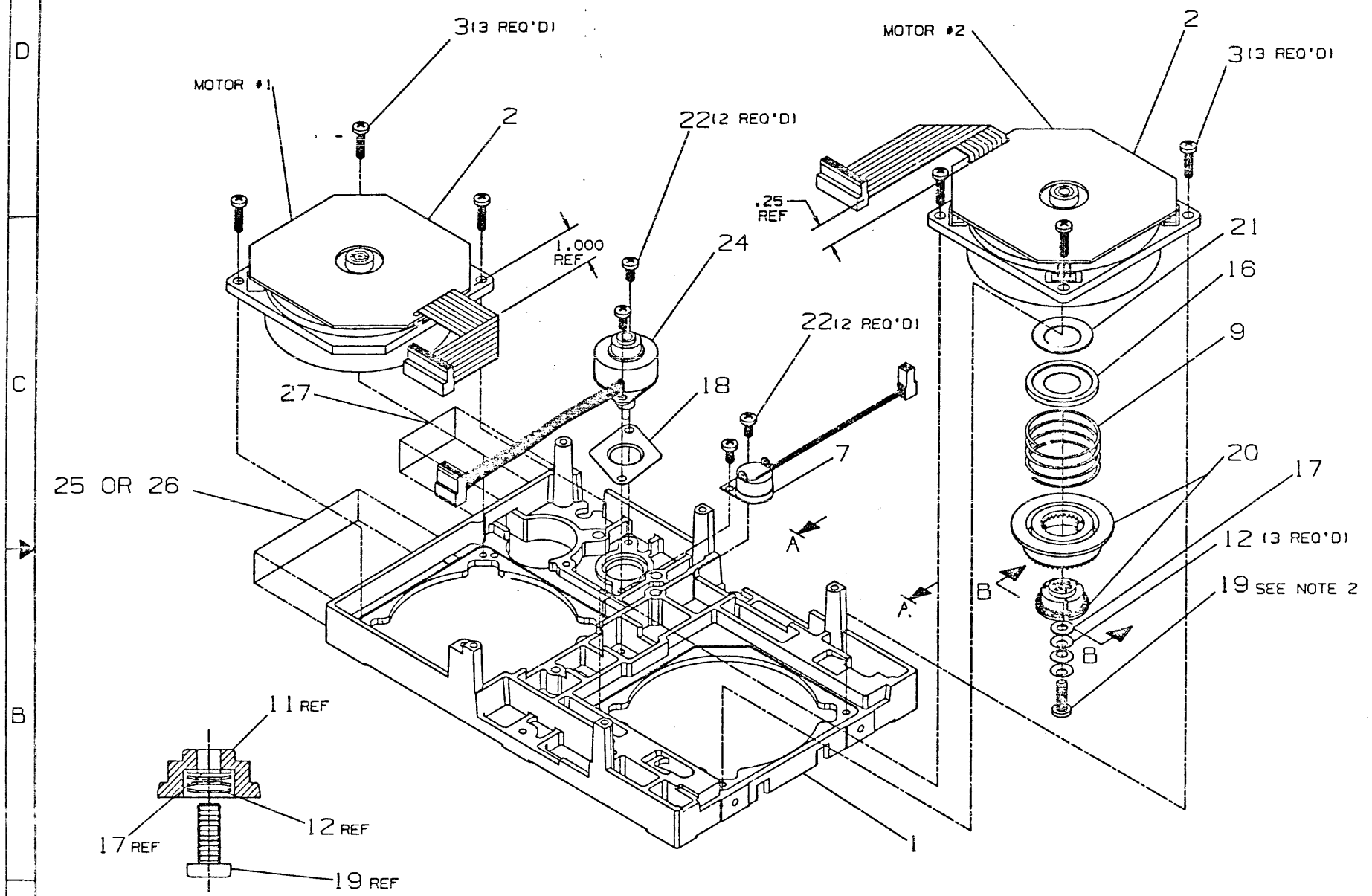
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LEGEND		
PART NO.	REV	VARIATION
7021736-01	D5	TK50
7021736-02	D5	TK70

- NOTES:
- DATUM -A- IS DEFINED BY 3 TOOLING POINTS A1, A2 AND A3 AS SHOWN ON DRAWING D-MD-7427667-0-DBU, BASEPLATE MACHINED DWG.
  - TORQUE SCREW (ITEM 19) TO 10±2 INCH POUNDS.
  - DATUM -D- DEFINED BY TOP OF .0469 DIAMETER PINS.
  - DIMENSION TO BE ACHIEVED BY USE OF ITEM 21 AS REQUIRED.



CAUTION  
 OFF SHEET PARTS LIST EXISTS  
 SEE K-PL-7021736-0-DBP

REV	NO.	DATE	BY	CHK'D	DESCRIPTION
A	1	4/23/84	H.A. OLSON		INITIAL
B	1				TK50-S4008
C	1				C.W.FIELDS 0-5-85
D	1				G.SCHNEIDER 7021736-S4001
E	1				C.W.FIELDS 10-7-85
F	1				G.SCHNEIDER 7021736-S4002
G	1				C.W.FIELDS 11-23-85
H	1				G.SCHNEIDER 7021736-S4003
I	1				C.W.FIELDS 12-2-86
J	1				E.WESTER 7021736-S4004
K	1				C.W.FIELDS 5-7-87
L	1				E.WESTER 7021736-S4005
M	1				C.W.FIELDS 8-11-87
N	1				E.WESTER 7021736-S4006
O	1				C.W.FIELDS 5-2-88
P	1				E.WESTER 7021736-S4007
Q	1				C.W.FIELDS 6-17-88
R	1				G.SCHNEIDER 7021736-S4008
S	1				C.W.FIELDS 12-2-88
T	1				E.WESTER 7021736-S4009
U	1				C.W.FIELDS 5-7-87
V	1				E.WESTER 7021736-S4010
W	1				C.W.FIELDS 5-2-88
X	1				E.WESTER 7021736-S4011
Y	1				C.W.FIELDS 5-2-88
Z	1				E.WESTER 7021736-S4012

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
INCHES TOLERANCES	ANGLES ±30°	APPLICABLE DIMENSION RANGE	
.XX ± .1	SURFACE QUALITY	OVER 0.2 TO 0.2	OVER 0.2 TO 1.0
.XX ± .02	✓	OVER 1.0 TO 12.0	OVER 12.0 TO 40.0
.XX ± .005	✓	OVER 40.0 TO 80.0	OVER 80.0 TO 100.0
QUANTITY & VARIATION	THIRD ANGLE PROJECTION	DIMENSION RANGE IN INCHES	
1	DO NOT SCALE DRAWING	OVER 0.2 TO 0.2	OVER 0.2 TO 1.0
1	REMOVE BURRS AND BREAK SHARP CORNERS	OVER 1.0 TO 12.0	OVER 12.0 TO 40.0
1	MATERIAL SEE PARTS LIST	OVER 40.0 TO 80.0	OVER 80.0 TO 100.0
1	FINISH NONE	OVER 100.0 TO 1000.0	OVER 1000.0 TO 10000.0
FIRST HIGHER ASS'Y E-UA-TK50-0-DBU		TITLE MOTOR AND BASEPLATE ASSEMBLY	
DRW: H.A. OLSON		DATE: 4/23/84	
CHK'D: ED WESTER		DATE: 4/23/84	
DES: G.SCHNEIDER		DATE: 3/8/85	
RESP. ENG: G. SCHNEIDER		DATE: 3/8/85	
MFR. ENG: W. HARRIS		DATE: 3/8/85	
TOP DOC: D-AD-7021736-0-DBU		SCALE: 1/1	
FINISH: NONE		SHEET 1 OF 2	

DRAWING NO. 7021736-0-DBU K

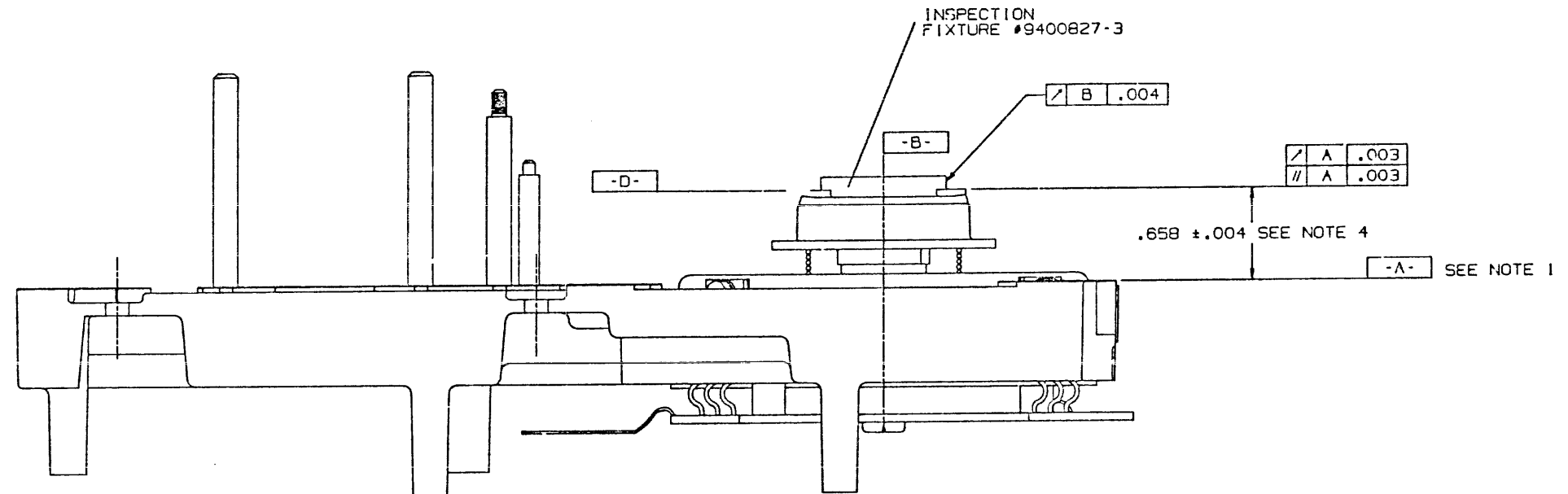
SHEET 1 OF 2



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DAD 7021736-0-DBU K

DAD 7021736-0-DBU K 2



VIEW A-A  
 ROTATED 180° CW  
 SCALE 2/1

REVISIONS		
CHK	CHANGE NO	REV
	SEE SHEET 1	

TITLE	MOTOR AND BASEPLATE ASSY	SIZE/CODE	DAD	NUMBER	7021736-0-DBU	REV	K
SCALE	1/1	SHEET	2 OF 2	DIST.			

DAD 7021736-0-DBU K

A

D

C

B

1 SHO

AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A1 OF A1  
QUANTITY PER VARIATION/REVISION

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01 D5	02 D5
1	D-IA-7021732-0-DBU	70-21732-01		BASEPLATE ASSY	1	1
2	A-PS-1222681-0-DBU	12-22681-01		MOTOR,BRUSHLESS,DC	2	2
3	A-PS-9010089-0-DBU	90-10089-03		SCREW,THD RL,PAN PHIL F/METAL	6	6
4	A-PS-1221497-0-DBU	12-21497-01		*** THIS ITEM IS NOT USED ***	-	-
5	A-PS-9009905-0-DBU	90-09905-01		*** THIS ITEM IS NOT USED ***	-	-
6	A-PS-1222958-0-DBU	12-22958-02		THERMAL SW,0@145,	A 1	1
7	A-PS-1222356-0-DBU	12-22356-01		SPRING,COMPRESSION 1.14 ODX .500LG	1	1
8	A-PS-9010506-0-DBU	90-10506-01		WASHER,SPRING BELLEVILLE STEEL	3	3
9	A-PS-3619833-0-DBU	36-19833-03		*** THIS ITEM IS NOT USED ***	-	-
10	C-MD-7431657-0-DBU	74-31657-01		PLATE,DRIVER SPRING SUPPORT	1	1
11	A-PS-1224692-0-DBU	12-24692-02		WASHER,FLAT	1	1
12	B-MD-7429607-0-DBU	74-29607-02		SHIELD ACTUATOR	1	1
13	A-PS-9006039-0-0	90-06039-01		SCREW,MACH PAN PHIL	8-32 1	1
14	D-AD-7023477-0-DBU	70-23477-01		REEL DRIVER ASSY	1	1
15	A-PS-1224328-0-0	12-24328-01		SHIM,PLASTIC RED .002THKX	A/R A/R	A/R
16	A-PS-9010717-0-0	90-10717-01		SCREW,MACH PAN PHIL	6-32 4	4
17	23	36-22059-10		*** THIS ITEM IS NOT USED ***	-	-
18	A-PS-1221497-0-DBU	12-21497-02		ACTUATOR,LINEAR	1	1
19	25	36-28698-01		LABEL,BAR CODE,TK50 UR/CSA	1	-
20	26	36-28698-02		LABEL,BAR CODE,TK70 UR/CSA	-	1
21	27	36-28699-01		LABEL,BAR CODE POLYESTER	1	1

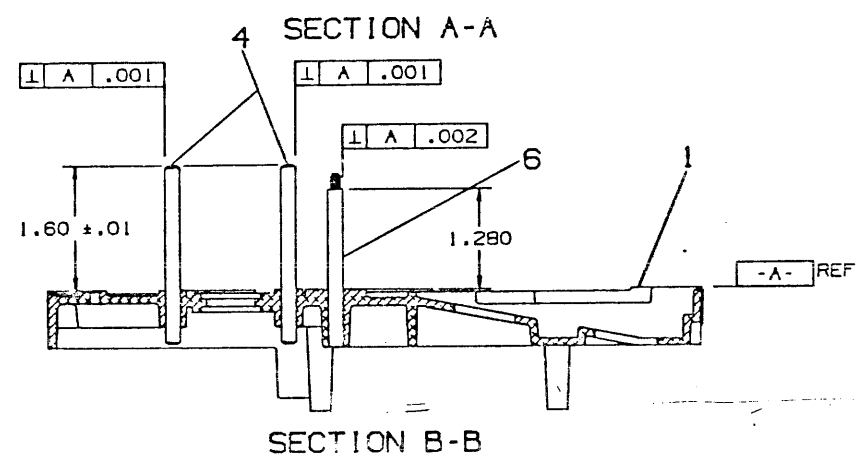
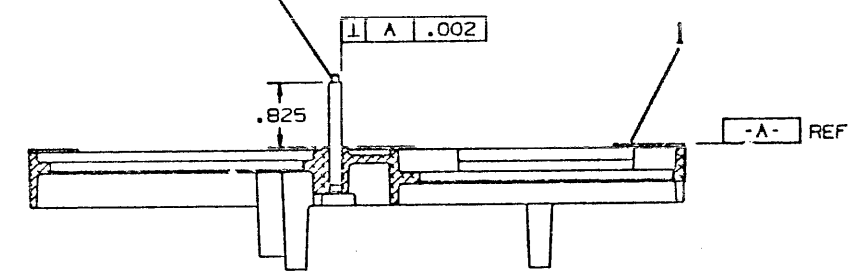
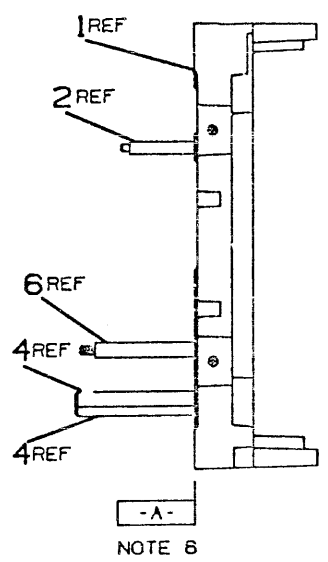
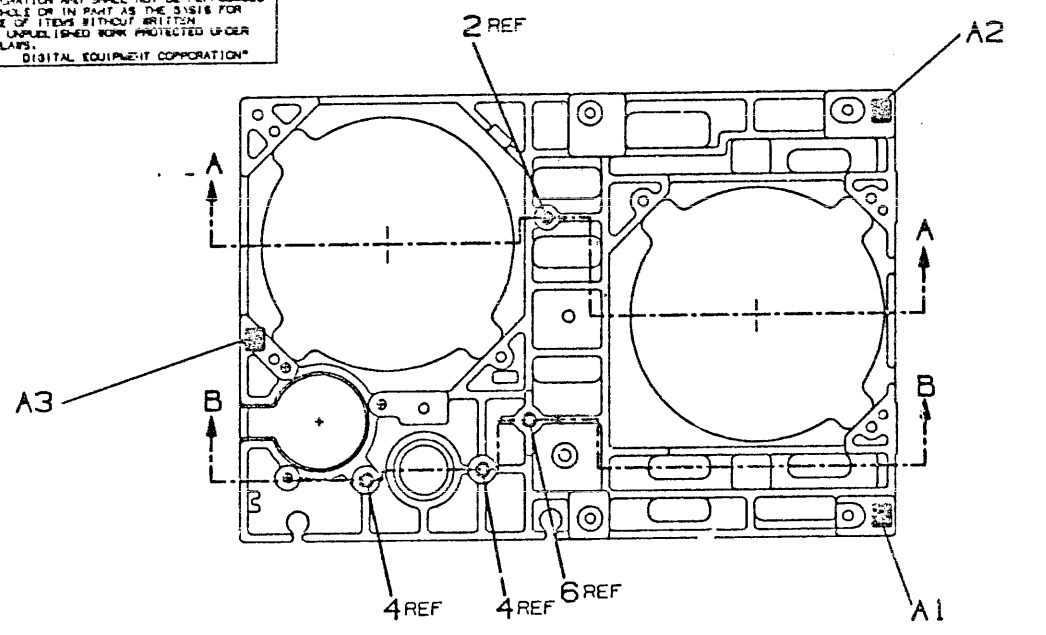
REVISION HISTORY			KPL MATRIX FORMAT	SECTION A OF A	DRN: R. PUDLEKO	DIGITAL		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE: 23-APR-84	CHK'D: E. WESTER	TITLE PARTS LIST		
---	INITIAL	A	(A) --01,02	DATE: 23-APR-84	DATE: 23-APR-84	MOTOR AND BASEPLATE ASSEMBLY		
GS	TK50-SH006	B	(B)	DES.ENG: E. WESTER	DOCUMENT NUMBER			
GS	7021736-SH001	C	(C)	DATE: 23-APR-84	SIZE: CODE:	NUMBER	REV	
GS	7021736-SH002	D	(D)	RESP.ENG.: G. SCHNEIDER	K	PL	7021736-0-DBP	K
GS	TK50-SH009	E	(E)	DATE: 23-APR-84	RELEASE DATE: 02-MAY-88			
EW	7021736-SH003	F	(F)	MFG.ENG: W. HARRIS	RELEASE STATUS: RELEASED			
EW	7021736-SH004	H	(H)	DATE: 23-APR-84				
EW	7021736-SH005	J	(J)					
EW	7021736-SH006	K	(K)					
BASIC PART NUMBER:			ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #		
7021736			D-AD-7021736-0-DBU	D-AD-7021736-0-DBU	Z8719K.PLS	1		

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LEGEND		
PART NO.	REV	VARIATION
7021732-01	C1	AS SHOWN

- NOTES:**
- PRESSFIT ASSEMBLE ITEM 2 PIN, LINK DRIVER TO ITEM 1 BASEPLATE, WITH SUPPORT DIRECTLY UNDER PIN TO DIM AS SHOWN.
  - PRESSFIT ASSEMBLY ITEM 3 SHAFT, PULLEY TO ITEM 1 BASEPLATE, WITH SUPPORT DIRECTLY UNDER SHAFT TO DIM AS SHOWN.
  - PRESSFIT ASSEMBLE ITEM 4 POST, HEAD GUIDE TO ITEM 1 BASEPLATE, WITH SUPPORT DIRECTLY UNDER POST TO DIM AS SHOWN. (2 PLACES)
  - THE PINS ON THE ASSEMBLED PART MUST SUSTAIN AN AXIAL FORCE OF 25 LBS (OPPOSITE THE DIRECTION OF INTERSERTION) WITHOUT MOVEMENT.
  - INSPECTION:  
 A. IN PROCESS STATISTICAL CONTROLS TO BE KEPT ON THE FOLLOWING DIMENSIONS PER DEC PLOICY #EL-MF347-00:
- | ZONE | DIMENSION      | METHOD | HISTOGRAM |
|------|----------------|--------|-----------|
| B6   | $\perp$ A .002 |        | YES       |
| B6   | $\perp$ A .001 |        | YES       |
| B7   | $\perp$ A .001 |        | YES       |
| C6   | $\perp$ A .002 |        | YES       |
6. DATUM A IS DEFINED BY 3 TOOLING POINTS A1, A2, AND A3 AS SHOWN ON DRAWING NUMBER D-MD-7427667-0-DBU, BASEPLATE MACHINING



**CAUTION**  
 OFF SHEET PARTS LIST EXISTS  
 SEE K-PL-7021732-0-DBP

DESCRIPTION	DRAWING NO.	PART NO.	TRD NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 1141)			
DIMENSION RANGE IN INCHES	OVER 0.2 TO 1.2	OVER 1.2 TO 3.0	OVER 3.0 TO 12.0
	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0	OVER 80.0 TO 160.0
FINISH	1.004	0.008	0.012
FORM	0.012	0.018	0.024
ANGLE 90°-30°			
SURFACE QUALITY			
WORKING			
QUANTITY & VARIATION			
THIRD ANGLE PROJECTION	DATE 12/9/83	TITLE	
DO NOT SCALE DRAWING	DATE 3/3/85	BASEPLATE, ASSEMBLY	
REMOVE BURRS AND BREAK SHARP CORNERS	DATE 8/21/83	DOCUMENT NUMBER	
MATERIAL SEE PARTS LIST	DATE 8/21/83	D 1A 7021732-0-DBU	
FINISH	DATE 3/3/85	SCALE 1/1	
FIRST HIGH-COST	0-1A-7021732-0-DBU	SHEET 1 OF 1	

REV	CHANGE NO.	INITIAL	DATE
A			
B			
C			
D			

AUTOMATED BY PRTLST.5R(55)

PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION
1	1	D-MD-7427667-0-DBU	7427667-03		BASE PLATE	1
2	2	B-MD-7429210-0-DBU	7429210-01		PIN, DRIVER LINK	1
3	3	C-MD-7429209-0-DBU	7429209-01		SHAFT, PULLEY	1
4	4	B-MD-7429388-0-DBU	7429388-01		POST, HEAD GUIDE	2
5	5	A-PS-3619833-0-0	3619833-02		*** THIS ITEM IS NOT USED ***	-

REVISION HISTORY		BASIC PART NO: 7021732		DRN: R. PUDELKO	DATE: 24-FEB-84	D I G I T A L		
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D: E. WESTER	DATE: 18-MAR-85	TITLE PARTS LIST		
---	INITIAL	A	SECTION VARIATION INDEX	DES.ENG: E. WESTER	DATE: 18-MAR-85	DOCUMENT NUMBER		
GS	TK50-SH002	B	[A]01	RESP.ENG.: G. SCHNEIDER	DATE: 18-MAR-85	SIZE: K	CODE: PL	NUMBER: 7021732-0-DBP
GS	7021736-SH001	C	[B]	MFG.ENG.: K. CRANSON	DATE: 18-MAR-85	RELEASE DATE: 07-OCT-85		
			[C]	ASSEMBLY NUMBER: D-IA-7021732-0-DBU	TOP DOCUMENT NUMBER: D-IA-7021732-0-DBU	FILE NAME: Z8715C.PLS		EDIT #: 14
			[D]					
			[E]					
			[F]					

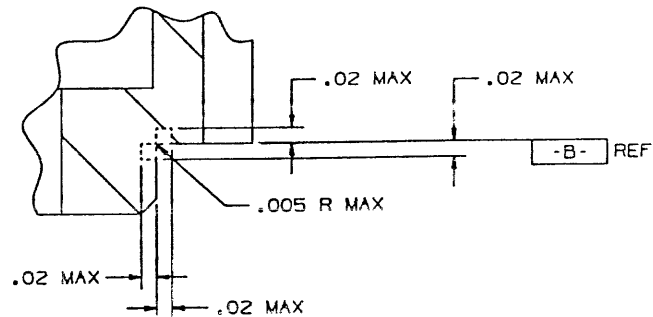
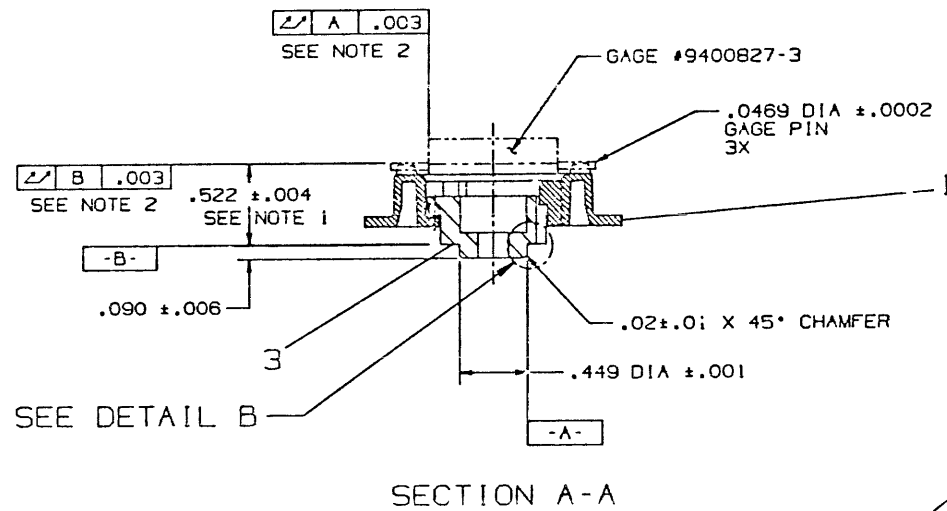
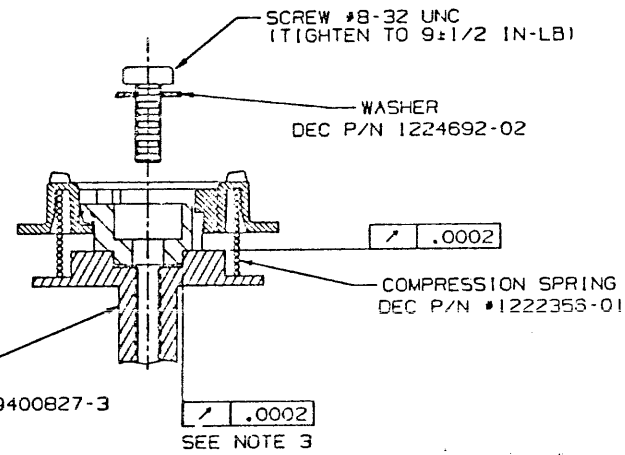
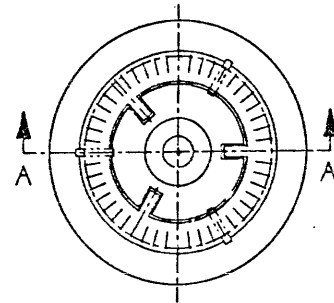
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LEGEND		
PART NO.	REV	VARIATION
7023477-01	A1	AS SHOWN

NOTES:

- ASSEMBLY SHALL BE PACKAGED SO ITEM 1 AND ITEM 2 REMAIN ASSEMBLED.
- DIMENSIONS TO BE CHECKED WHILE MOUNTED ON DEC GAGE #9400827-3
- GAGE BORE WILL BE ADJUSTABLE THROUGH TOTAL PART TOLERANCE. RUNOUT OF .0002 T.I.R. WILL BE MAINTAINED THROUGHOUT TOTAL BORE ADJUSTMENT.
- 75% OF THE TEETH ON ITEM 1 SHALL SHOW CONTACT WITH THE TEETH ON ITEM 2 AFTER BEING PRESSED TOGETHER WITH LESS THAN 10.0 LB.



DETAIL B--  
THREE ACCEPTABLE CORNER RELIEF METHODS  
SCALE: 10/1

CAUTION  
OFF SHEET PARTS LIST EXISTS  
SEE K-PL-7023477-0-DBP

REV.	CHG NO.	INITIAL	DATE
A			
B			
C.W.FIELDS 2-9-87			
E. WESTER			

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
DIMENSION RANGE IN INCHES			
APPLICABLE DIMENSION RANGE	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0
	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
TOLERANCES	±.02	±.03	±.04
ANGLES NOT 90°	±.004	±.008	±.012
SURFACE QUALITY	±.018	±.024	±.030
QUANTITY & VARIATION			
THIRD ANGLE PROJECTION			
DO NOT SCALE DRAWING			
REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL			
SEE PARTS LIST			
FINISH			
DRW. R. PUDELKO	DATE 29 JAN 86	TITLE REEL DRIVER ASSY	
CHK'D E. WESTER	DATE 4 FEB 86	DOCUMENT NUMBER	
DES. ENG. K. CRANSON	DATE 29 JAN 86	SIZE CODE NUMBER	REV. B
RESP. ENG. G. SCHNEIDER	DATE 4 FEB 86	D AD 7023477-0-DBU	
MFG. ENG. W. HARRIS	DATE 4 FEB 86	SCALE 2/1	SHEET 1 OF 1
TOP DOC. D-AD-7023477-0-DBU			

AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A1 OF A1  
QUANTITY PER VARIATION/REVISION

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY
1	1	D-MD-7427688-0-DBU	74-27688-01		DRIVER, REEL	1
2	2				*** THIS ITEM IS NOT USED ***	-
3	3	D-MD-7427691-0-DBU	74-27691-02		DRIVER, HUB, (MACHINED)	1

REVISION HISTORY		KPL MATRIX FORMAT		SECTION A OF A	DRN: R. PUDELKO	DIGITAL				
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 29-JAN-86	TITLE		PARTS LIST		
---	INITIAL	A	[A]	01	CHK'D: E. WESTER	REEL DRIVER				
EW	7023477-SH001	B	[B]		DATE: 29-JAN-86	ASSY				
			[C]		DES. ENG: K. CRANSON	DOCUMENT NUMBER				
			[D]		DATE: 29-JAN-86	SIZE	CODE	NUMBER	REV	
			[E]		RESP. ENG.: G. SCHNIEDER	K	PL	7023477-0-DBP	B	
			[F]		DATE: 04-FEB-86	RELEASE DATE: 10-FEB-87				
			[H]		MFG. ENG: W. HARRIS	RELEASE STATUS: RELEASED				
			[J]		DATE: 04-FEB-86					
		BASIC PART NUMBER:		ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #		
		7023477		D-AD-7023477-0-DBU	D-AD-7023477-0-DBU	SH270B.PLS		1		

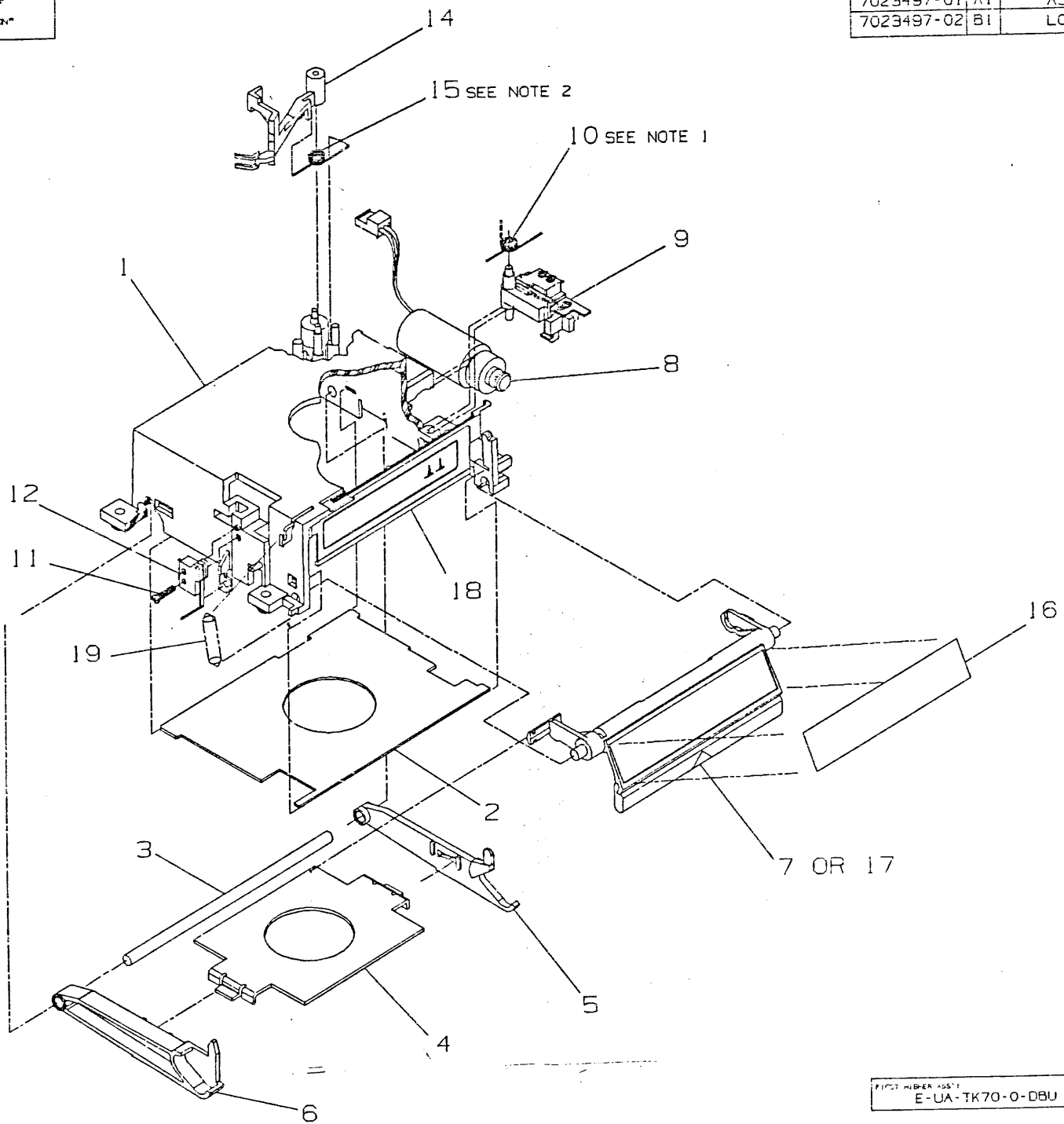
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LEGEND		
PART NO.	REV	VARIATION
7023497-01	A1	AS SHOWN
7023497-02	B1	LONG SHAFT

NOTES:

- TOTAL WARP OF SPRING WHEN INSTALLED TO BE APPROX. 45°.
- INSTALLED SPRING TO BE WOUND APPROXIMATELY 30° FROM FREE STATE.



CAUTION  
 OFF SHEET PARTS LIST EXISTS  
 SEE K-PL-7023497-0-DBP

MAG. MEDIA FILENAME: 7023497-AD-DBUC

REV	CHG NO.	INITIAL	DATE
A		TK	70-5K003
B		C.W.	70-5K003 02-01-88
C		E.	70-5K004
		T.	BRIGHTMAN 25-JAN-90
		P.	BARTON

FIRST NUMBER ASSY  
 E-UA-TK70-0-DBU

DESCRIPTION	DRAWING NO.	PART NO.	TITLE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
INCHES TOLERANCES	ANGLES 10° 30'	APPLICABLE DIMENSION RANGE	
		OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY	MICRO-INCHES	100:100	2:10
		1:100	1:100
THIRD ANGLE PROJECTION	DATE	TITLE	
DO NOT SCALE DRAWING	21 FEB 87	RECEIVER ASSEMBLY	
REMOVE BURRS AND BREAK SHARP CORNERS	8 JUN 87	DOCUMENT NUMBER	
MATERIAL SEE PARTS LIST	8 MAY 87	D AD 7023497-0-DBU C	
FINISH NONE	8 JUN 87	SCALE 1/1 SHEET 1 OF 1	

PART NO. 7023497-0-DBU C

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01 A01	02 B01
1	1	E-MD-7432530-0-DBU	74-32530-02		RECEIVER	1	1
2	2	C-MD-7429212-0-DBU	74-29212-01		FLOOR, RECEIVER	1	1
3	3	B-MD-7429216-0-DBU	74-29216-01		SHAFT, PIVOT LINK	1	1
4	4	D-MD-7429211-0-DBU	74-29211-01		PLATE, CLUTCH	1	1
5	5	D-MD-7429213-0-DBU	74-29213-01		LINK, CLUTCH, RIGHT	1	1
6	6	D-MD-7429214-0-DBU	74-29214-01		LINK, CLUTCH, LEFT	1	1
7	7	D-IA-7024656-0-DBU	70-24656-01		HANDLE, ENGAGING ASSY	1	-
8	8		12-22089-01		SOLENOID, 10.5VDC, TUBULAR INTERMITT	1	1
9	9	C-AD-7021738-0-DBU	70-21738-01		INTERPOSER ASSY.	1	1
10	10		12-22538-01		SPRING, TORSION	1	1
11	11		90-10500-01		SCREW, THRL 2-56 PAN .375 XRCS	1	1
12	12		12-25332-02		SW, ASSY SPDT NO-SNAP ACTING	1	1
13	13				*** THIS ITEM IS NOT USED ***	-	-
14	14	D-MD-7434496-0-DBU	74-34496-01		LINK, BUCKLING	1	1
15	15	A-PS-1223742-0-DBU	12-23742-01		SPRING, TORSION .020DIA WIRE	1	1
16	16	A-PS-3628840-0-0	36-28840-01		LABEL, HANDLE TK70	1	1
17	17	D-IA-7024656-0-DBU	70-24656-02		HANDLE ENGAGING ASSY LONG SHAFT	-	1
18	18		74-39328-01	A	DOOR, RECEIVER	-	1
19	19		12-31677-01	B	SPRING, EXTENSION 0.2000D	-	1

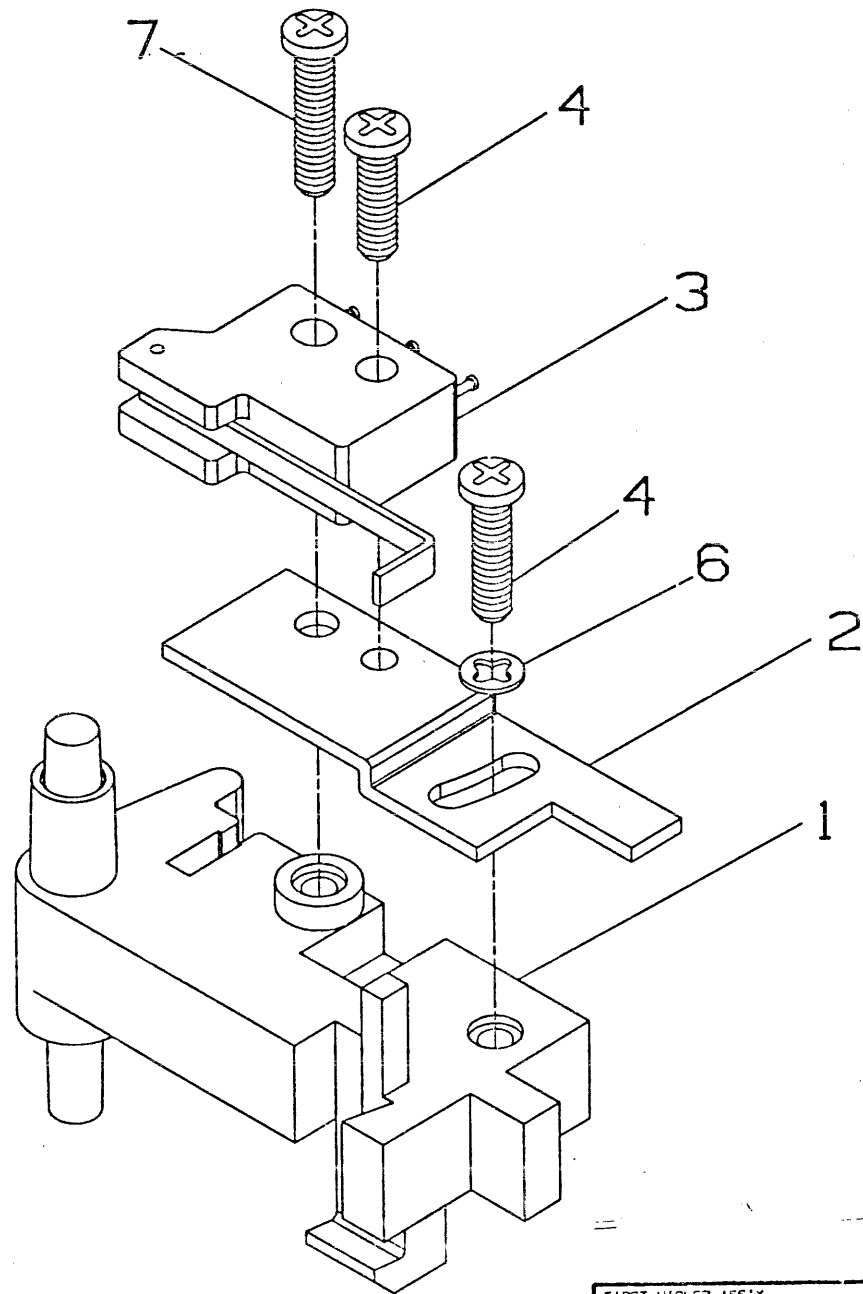
REVISION HISTORY			KPL MATRIX FORMAT		SECTION A OF A	DRN: C.W.FIELDS	DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX			DATE: 24-FEB-86				
---	INITIAL	A	[A]	01,02		CHK'D: A. HIGGINS	TITLE PARTS LIST			
EW	TK70-SH003	B	[B]			DATE: 20-AUG-87	RECEIVER ASSY			
PB	TK70-SH004	C	[C]			DES. ENG: K. CRANSON	DOCUMENT NUMBER			
			[D]			DATE: 20-AUG-87	SIZE	CODE	NUMBER	REV
			[E]			RESP. ENG.: K. CRANSON	K	PL	7023497-0-DBP	C
			[F]			DATE: 20-AUG-87	RELEASE DATE: 01-FEB-90			
			[H]			MFG. ENG: F. BELLIVEAU	RELEASE STATUS: RELEASED			
			[J]			DATE: 20-AUG-87				
BASIC PART NUMBER:			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		EDIT #			
7023497			D-AD-7023497-0-DBU		K-PL-7023497-0-DBP		2			
FILE NAME: 7023497C.PLS										

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LEGEND		
PART NO.	REV	VARIATION
7021738-01	B2	AS SHOWN



CAUTION  
 OFF SHEET PARTS LIST EXISTS  
 SEE K-PL-7021738-0-DBP

FIRST HIGHER ASS'Y  
 D-AD-7021085-0-DBU

REVISIONS	REV.
CHANGE NO.	A
INITIAL	B
7021738-SH001	C
W.FIELDS 10-6-85	
E. WESTER	
7021738-SH002	
W.FIELDS 6-26-87	
E. WESTER	

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
INCHES TOLERANCES	DIMENSION RANGE IN INCHES		
	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0
.X: ±.1	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 60.0
.XX: ±.02	±.02	±.03	±.05
.XXX: ±.005	±.004	±.008	±.012
	±.016	±.024	±.04
THIRD ANGLE PROJECTION	DPN	DATE	TITLE
DO NOT SCALE DRAWING	H.A. OLSON	4/6/84	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D	DATE	INTERPOSER, ASSEMBLY
MATERIAL SEE PARTS LIST	E. WESTER	3-14-85	
FINISH	DES. ENG.	DATE	DOCUMENT NUMBER
	E. WESTER	3-14-85	
	RESP. ENG.	DATE	SIZE CODE NUMBER REV.
	G. SCHNEIDER	3-14-85	
	WFG. ENG.	DATE	C AD 7021738-0-DBU C
	W. HARRIS	3-14-85	SCALE 4/1 SHEET 1 OF 1
	TOP DOC.		
	C-AD-7021738-0-DBU		

SIZE CODE NUMBER REV. C AD 7021738-0-DBU C

AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A1 OF A1  
QUANTITY PER VARIATION/REVISION

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY
1	1	E-ME-7429215-0-DBU	74-29215-01		INTERPOSER	1
2	2	C-MD-7429218-0-DBU	74-29218-01		MOUNT, SWITCH	1
3	3		12-22274-04		SW, MICRO 1PDT NO 5A28	1
4	4		90-10500-01		SCREW, THD. RL, PAN PHIL CS/ZNC #	2
5	5				*** THIS ITEM IS NOT USED ***	-
6	6		90-06631-00		WASHER, LOCK INTERNAL STEEL	1
7	7		90-08025-01		SCREW, MACH PAN PHIL 2-56	1

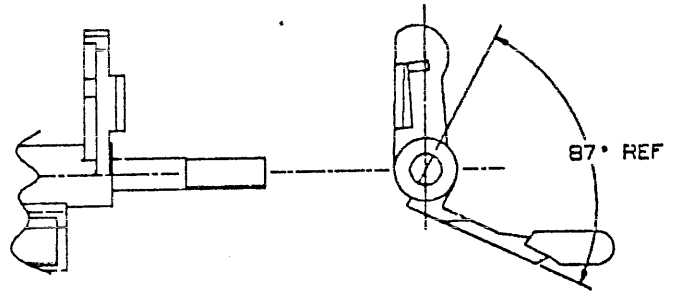
REVISION HISTORY			KPL MATRIX FORMAT		SECTION A OF A		DRN: C.W.FIELDS		DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		CHK'D:	E.WESTER	DATE: 16-MAR-85		TITLE PARTS LIST			
---	INITIAL	A	[A]	01	DATE:	E.WESTER	DATE: 16-MAR-85		INTERPOSER ASSEMBLY			
EW	7021738-SH001	B	[B]		DES.ENG:	E.WESTER	DATE: 16-MAR-85		DOCUMENT NUMBER			
EW	7021738-SH002	C	[C]		DATE:	E.WESTER	DATE: 16-MAR-85		SIZE:	CODE:	NUMBER	REV
			[D]		RESP.ENG.:	G.SCHNEIDER	DATE: 16-MAR-85		K	PL	7021738-0-DBP	C
			[E]		MFG.ENG.:	W.HARRIS	DATE: 16-MAR-85		RELEASE DATE: 26-JUN-87			
			[F]						RELEASE STATUS: RELEASED			
			[H]									
			[J]									
			BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			7021738		C-AD-7021738-0-DBU		C-AD-7021738-0-DBU		Z8721C.PLS		2	

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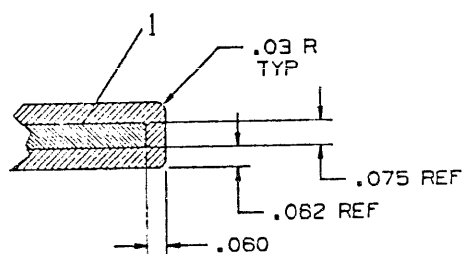
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LEGEND		
PART NO.	REV	VARIATION
7024656-01	A2	AS SHOWN
7024656-02	A1	LONG SHAFT

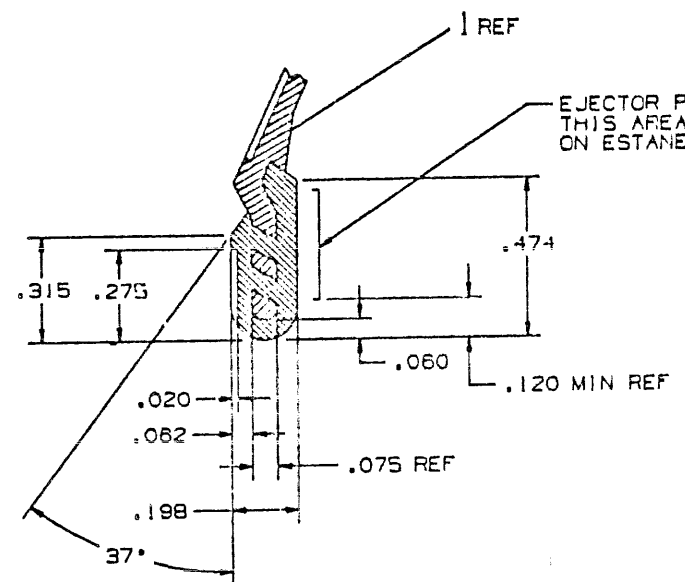
- NOTES:
1. MATERIAL: ESTANE 58370  
 COLOR: 092-DXX2-232 MED DARK GREY  
 DUROMETER: SHORE B3A
  2. EJECTOR PINS TO BE FLUSH OR UNDER FLUSH BY MAX .010
  3. NO FLASH ALLOWED ALONG FRONT EDGE OR SIDES MAX +.005 ALLOWED ON REAR OF HANDLE
  4. GATE AREA TO BE TRIMMED FLUSH OR +.005 TO EDGE OF HANDLE.
  5. UL CLASSIFICATION 94V-2.
  6. TO BE LISTED IN CURRENT UL COMPONENT INDEX.



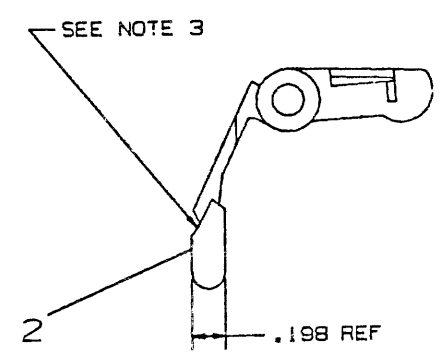
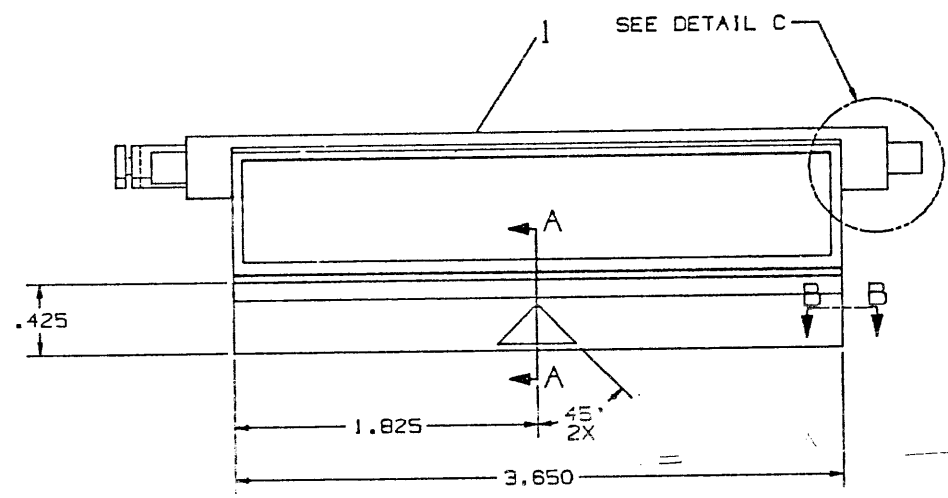
DETAIL C  
 LONG SHAFT SHOWN  
 .02 VARIATION ONLY



SECTION B-B  
 SCALE 4/1



SECTION A-A  
 SCALE: 4/1



CAUTION  
 OFF SHEET PARTS LIST EXISTS  
 REFER TO K-PL-7024656-0-DBP

MAG. MEDIA FILENAME: 7024656-0-DBUB

REV.	CHG. NO.	INITIAL	DATE
A			
B			

REVISIONS  
 CHANGE NO. REV. INITIAL DATE  
 7024656-54001 B  
 C.W.FIELDS 01-31-86  
 E.WESTER

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
DIMENSION RANGE IN INCHES			
INCHES TOLERANCES	ANGLES 10°-30°	APPLICABLE DIMENSION RANGE	OVER 0.2 TO 1.0
.XX ± .02	SURFACE QUALITY	1.0 TO 1.5	1.0 TO 1.5
.XXX ± .005		1.5 TO 3.0	1.5 TO 3.0
QUANTITY & VARIATION	THIRD ANGLE PROJECTION	DATE	TITLE
D-AD-7023497-0-DBU	DO NOT SCALE DRAWING	8-15-86	digital
	REMOVE BURRS AND BREAK SHARP CORNERS	DATE	HANDLE, ENGAGING ASSY
	MATERIAL SEE NOTE 1	8-15-88	
	FINISH NONE	DATE	DOCUMENT NUMBER
		8-15-88	DIA 7024656-0-DBU B
			SCALE 2/1 SHEET 1 OF 1

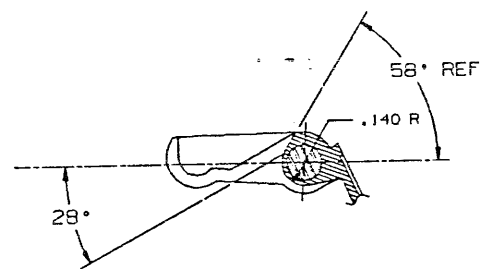
LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION	
					01 A2	02 A1
1	3 D-IA-7024657-0-DBU	70-24657-01		HANDLE ENGAGING	1	-
2	4 A-PS-1200015-GS	12-00015-GS		GENERAL SPEC FOR RIGID PLASTIC PAR	A/R	A/R
3	5 D-IA-7024657-0-DBU	70-24657-02		HANDLE ENGAGING LONG SHAFT	-	1

REVISION HISTORY		KPL MATRIX FORMAT		SECTION A OF A	DRN: R BURHANS	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 16-FEB-87				
---	INITIAL	A	[A]	01,02	CHK'D: K. CRANSON	TITLE PARTS LIST			
EW	7024656-SH001	B	[B]		DATE: 26-AUG-87	HANDLE, ENGAGING ASSY			
			[C]		DES.ENG: P. BARTON	DOCUMENT NUMBER			
			[D]		DATE: 26-AUG-87	SIZE	CODE	NUMBER	
			[E]		RESP.ENG.: K. CRANSON			REV	
			[F]		DATE: 26-AUG-87	K	PL	7024656-0-DBP	
			[H]		MFG.ENG: F BELLIVEAU	RELEASE DATE: 01-FEB-89			
			[J]		DATE: 21-FEB-87	RELEASE STATUS: RELEASED			
			BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		EDIT #
			7024656		D-IA-7024656-0-DBU		D-IA-7024656-0-DBU		2
			FILE NAME: SH456B.PLS						

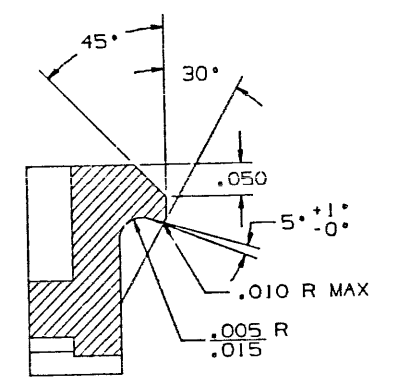
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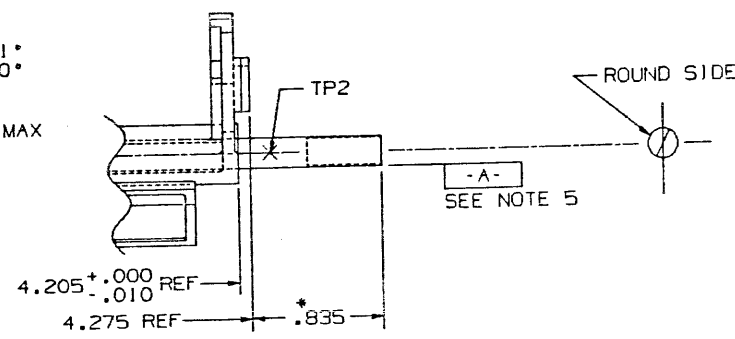
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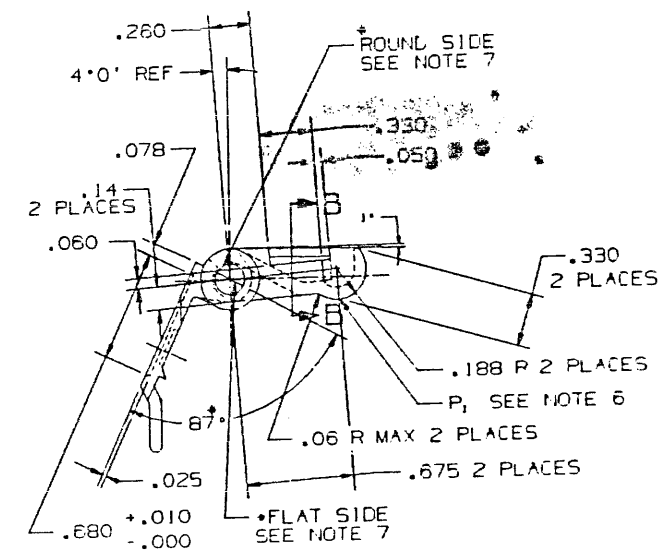
SECTION A-A



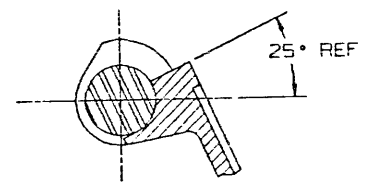
SECTION B-B  
SCALE 8/1



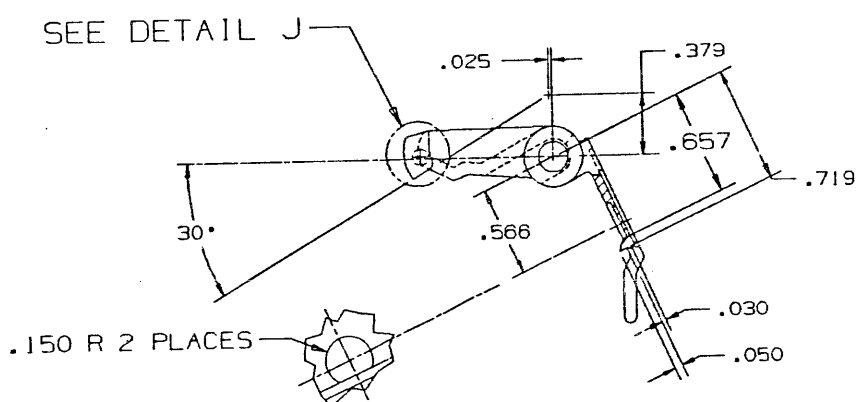
DETAIL K  
\* = FOR -C2 VARIATION ONLY



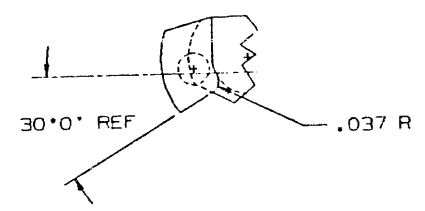
DETAIL L  
\* = FOR -02 VARIATION ONLY



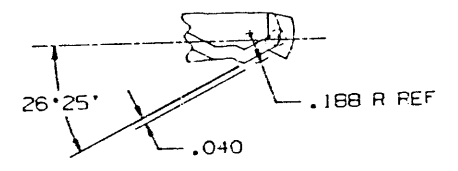
SECTION C-C  
SCALE 4/1



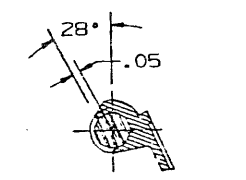
DETAIL H



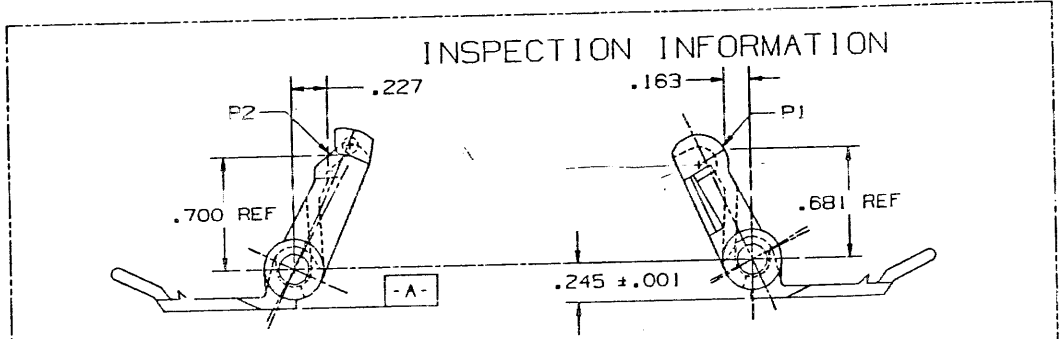
DETAIL J  
SCALE 4/1



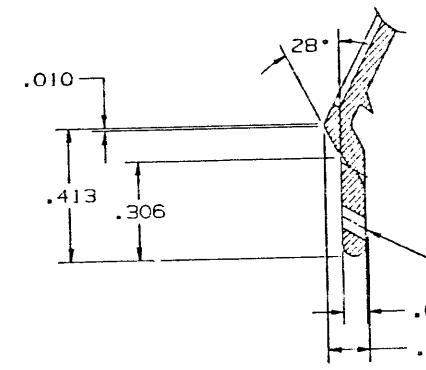
VIEW F-F



SECTION D-D



INSPECTION INFORMATION



SECTION E-E  
SCALE 4/1

THESE HOLES OR DEPRESSIONS ARE FOR MOLD THRU OF ESTANE (SEE PRINT 702-6561) POSITION AND DIA TO SUIT MANUFACTURE OF 702-6568

REVISIONS		
CHK	CHANGE NO	REV
	SEE SHEET 1	

TITLE	HAVIDLE, ENGAGING	SIZE CODE	DIA	NUMBER	702-657-0-DBU	REV	D
SCALE	2/1	SHEET	2	OF	2	DIST	

SHG

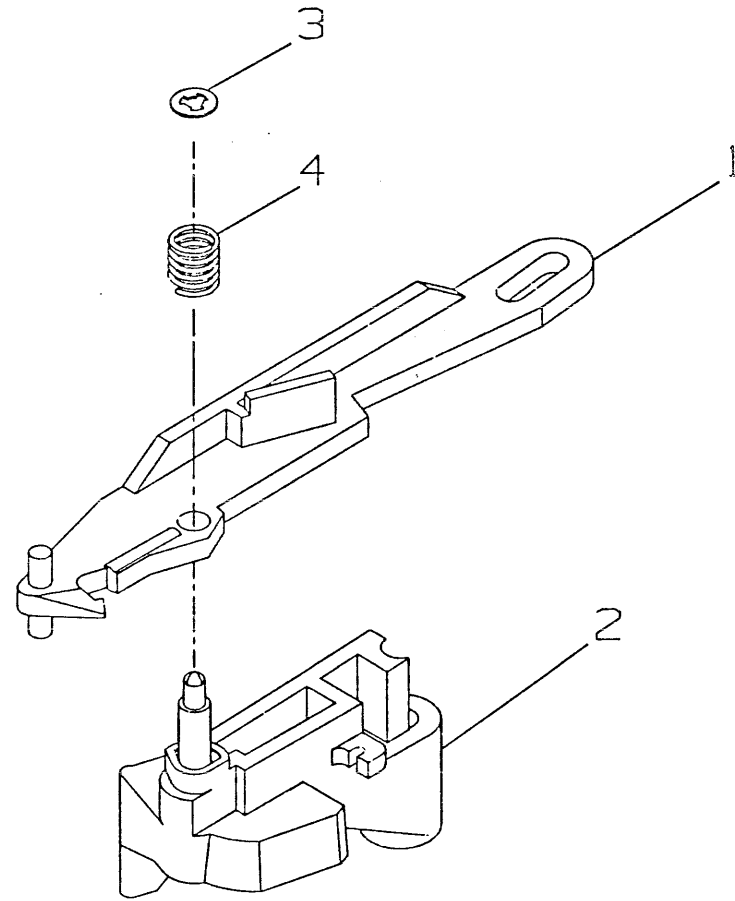
LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01 A03	02 A02
1	1	B-MD-7434433-0-DBU	74-34433-01		HANDLE, SHAFT	1	-
2	2	A-PS-1200015-GS	12-00015-GS		GENERAL SPEC FOR RIGID PLASTIC PAR	A/R	A/R
3	3	B-MD-7434433-0-DBU	74-34433-02		HANDLE, SHAFT, LONG SHAFT	-	1

REVISION HISTORY			KPL MATRIX FORMAT		SECTION A OF A	DRN: R BURHANS	DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX			DATE: 16-FEB-87	TITLE	PARTS LIST		
---	INITIAL	A	[A]	01,02		CHK'D: K. CRANSON	HANDLE ENGAGING			
EW	7024656-SH001	B	[B]			DATE: 12-AUG-87				
PB	7024657-SH001	C	[C]			DES. ENG: P. BARTON	DOCUMENT NUMBER			
EW	7024657-SH002	D	[D]			DATE: 12-AUG-87	SIZE	CODE	NUMBER	REV
			[E]			RESP. ENG.: K. CRANSON	K	PL	7024657-0-DBP	D
			[F]			DATE: 12-AUG-87	RELEASE DATE: 23-JAN-90			
			[H]			MFG. ENG: F BELLIVEAU	RELEASE STATUS: RELEASED			
			[J]			DATE: 21-FEB-87	TOP DOCUMENT NUMBER:			EDIT #
						BASIC PART NUMBER: 7024657	ASSEMBLY NUMBER: D-IA-7024657-0-DBU			1
						FILE NAME: 7024657D.PLS	TOP DOCUMENT NUMBER: D-IA-7024657-0-DBU			

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LEGEND		
PART NO.	REV	VARIATION
7023544-01	A1	AS SHOWN



CAUTION  
 OFF SHEET PARTS LIST EXISTS  
 SEE K-PL-7023544-0-DBP

REVISIONS	
#	CHANGE NO. / REV.
	INITIAL A
	7023544-5H001 B
	ION HAYNES 4/24/87
	EDWIN WESTER

FIRST HIGHER ASS'Y  
 E-UA-TK50-0-DBU

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSION RANGE (CHECK ONE)	
		OVER 0 TO 0.2	OVER 0.2 TO 1.2
.X: ± .1	SURFACE QUALITY	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0
.XX: ± .02		OVER 12.0 TO 40.0	OVER 40.0 TO 60.0
.XXX: ± .005			
	MICROINCHES		
THIRD ANGLE PROJECTION	DRN R. PUDELKO	DATE 23-AUG-86	TITLE LEADER LATCH ASSY
DO NOT SCALE DRAWING	CHK'D E. WESTER	DATE 10-OCT-86	DOCUMENT NUMBER
REMOVE BURRS AND BREAK SHARP CORNERS	DES. ENG. E. WESTER	DATE 10-OCT-86	
MATERIAL SEE PARTS LIST	RESP. ENG. E. WESTER	DATE 10-OCT-86	SIZE CODE NUMBER
FINISH NONE	MFG. ENG. A. SNELL	DATE 11-NOV-86	C AD 7023544-0-DBU
	TOP DOC. C-AD-7023544-0-DBU		REV. B

SIZE CODE NUMBER  
 C AD 7023544-0-DBU

A



AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A1 OF A1  
QUANTITY PER VARIATION/REVISION

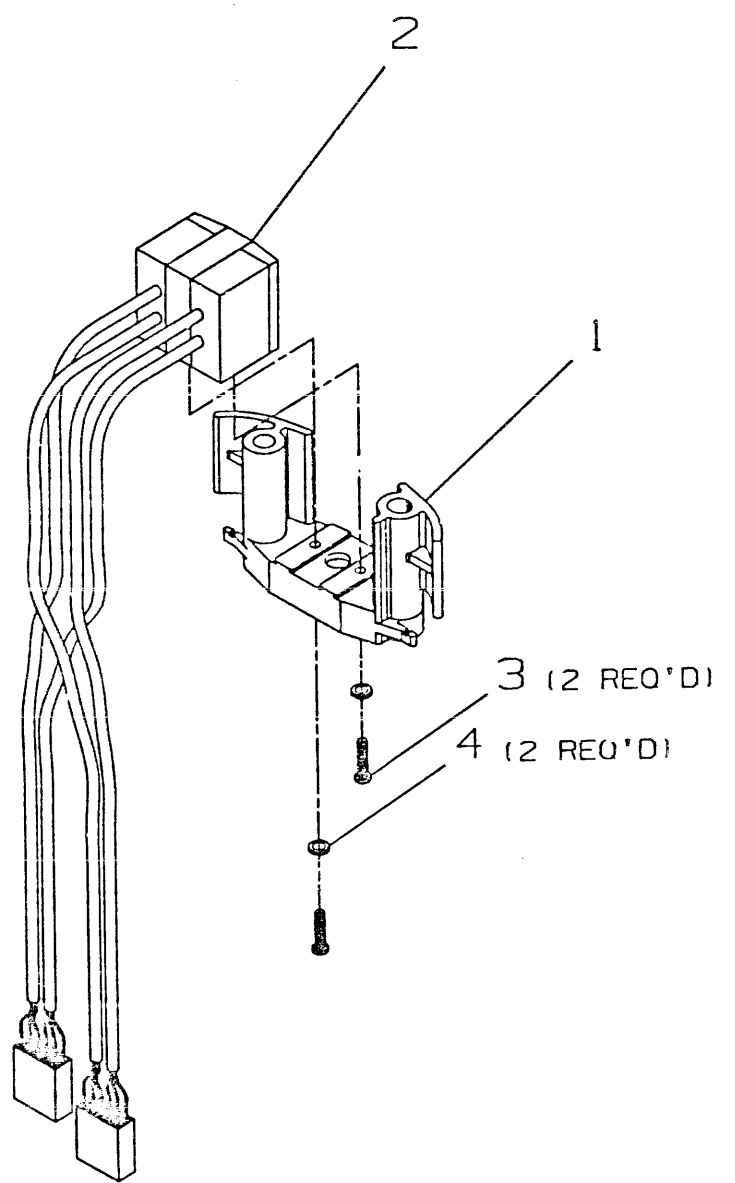
LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY
1	D-MD-7434495-0-DBU	74-34495-01		ARM, BUCKLING	1
2	D-MD-7432418-0-DBU	74-32418-01		LINK, DRIVER	1
3		12-21021-03		RING, RETAINER INTERNAL FOR .094SH	1
4		12-19950-02		SPRING, COMPRESSION .1750D	1

REVISION HISTORY		KPL MATRIX FORMAT		SECTION A OF A	DRN: R. PUDELKO	DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 25-AUG-86				
---	INITIAL	A	[A]	01	CHK'D: E. WESTER	TITLE PARTS LIST			
EW	7023544-SH001	B	[B]		DATE: 10-OCT-86	LEADER LATCH ASSY			
			[C]		DES. ENG: E. WESTER	DOCUMENT NUMBER			
			[D]		DATE: 10-OCT-86	SIZE	CODE	NUMBER	REV
			[E]		RESP. ENG.: E. WESTER	K	PL	7023544-0-DBP	B
			[F]		DATE: 10-OCT-86	RELEASE DATE: 26-APR-87			
			[H]		MFG. ENG: A. SNELL	RELEASE STATUS: RELEASED			
			[J]		DATE: 11-NOV-86				
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #			
7023544		C-AD-7023544-0-DBU		C-AD-7023544-0-DBU	SH397B.PLS	1			

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LEGEND		
PART NO.	REV	VARIATION
7023482-01	A1	AS SHOWN



CAUTION  
 OFF SHEET PARTS LIST EXISTS  
 SEE K-PL-7023482-0-DBP

MAG. MEDIA FILENAME: 7023482-0-DBUA

REV.	CHANGE NO.	INITIAL
A		

FIRST HIGHER ASS'Y  
 E-UA-TK70-0-DBU

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
DIMENSION RANGE IN INCHES			
INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSION RANGE	OVER 0 TO 0.2
.X: ±.1	SURFACE QUALITY	CHECK ONE	OVER 0.2 TO 1.2
.XX: ±.02	<input checked="" type="checkbox"/> MICROFINISH	<input type="checkbox"/>	OVER 1.2 TO 4.0
.XXX: ±.005		<input type="checkbox"/>	OVER 4.0 TO 12.0
		<input type="checkbox"/>	OVER 12.0 TO 40.0
		<input type="checkbox"/>	OVER 40.0 TO 80.0
			OVER 80.0 TO 100.0
			OVER 100.0 TO 150.0
			OVER 150.0 TO 200.0
			OVER 200.0 TO 300.0
			OVER 300.0 TO 400.0
			OVER 400.0 TO 500.0
			OVER 500.0 TO 600.0
			OVER 600.0 TO 700.0
			OVER 700.0 TO 800.0
			OVER 800.0 TO 900.0
			OVER 900.0 TO 1000.0
THIRD ANGLE PROJECTION	DRN R. PUDELKO	DATE 21 FEB 87	TITLE digital
DO NOT SCALE DRAWING	CHK'D K. CRANSON	DATE 15 JUN 87	BRACKET, HEAD ASSEMBLY
REMOVE BURRS AND BREAK SHARP CORNERS	DES. ENG. P. BARTON	DATE 15 JUN 87	
MATERIAL SEE PARTS LIST	RESP. ENG. K. CRANSON	DATE 15 JUN 87	DOCUMENT NUMBER
FINISH	MFG. ENG. F. BELLIVEAU	DATE 17 JUN 87	SIZE CODE NUMBER
	TCP DOC. C-AD-7023482-0-DBU		C AD 7023482-0-DBU
			REV. A
			SCALE 1/1
			SHEET 1 OF 1

REV. A  
 ITEM NO.  
 C AD 7023482-0-DBU  
 NUMBER  
 C AD 7023482-0-DBU  
 SIZE CODE  
 B  
 A

AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A1 OF A1  
QUANTITY PER VARIATION/REVISION

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY
1	D-MD-7427718-0-DBU	74-27718-01		BRACKET, HEAD	1
2	A-SP-7023482-0-DBF			HEAD, MAGNETIC	1
3	A-PS-9010089-0-0	90-10089-01		SCREW, THD RL, PAN PHIL F/METAL	2
4	A-PS-9006686-0-0	90-06686-00		WASHER, HELICAL SPLIT SST	2

REVISION HISTORY		KPL MATRIX FORMAT		SECTION A OF A	DRN: R. PUDELKO	DIGITAL		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 10-APR-87	TITLE PARTS LIST		
---	INITIAL	A	[A]	01	CHK'D: K. CRANSON	BRACKET, HEAD ASSEMBLY		
			[B]		DATE: 27-AUG-87			
			[C]		DES. ENG: P. BARTON	DOCUMENT NUMBER		
			[D]		DATE: 27-AUG-87	SIZE	CODE	NUMBER
			[E]		RESP. ENG.: K. CRANSON	K	PL	7023482-0-DBP
			[F]		DATE: 27-AUG-87			REV
			[H]		MFG. ENG: F. BELLIVEAU	RELEASE DATE: 29-AUG-87		
			[J]		DATE: 27-AUG-87	RELEASE STATUS: RELEASED		
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #		
7023482		C-AD-7023482-0-DBU		C-AD-7023482-0-DBU	SH459A.PLS	11		

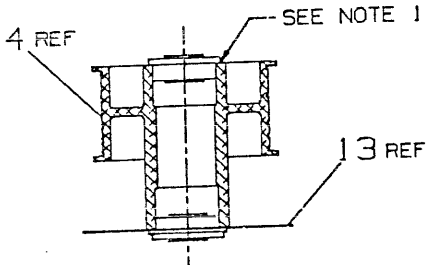
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LEGEND		
PART NO.	REV	VARIATION
7024659-01	B1	AS SHOWN

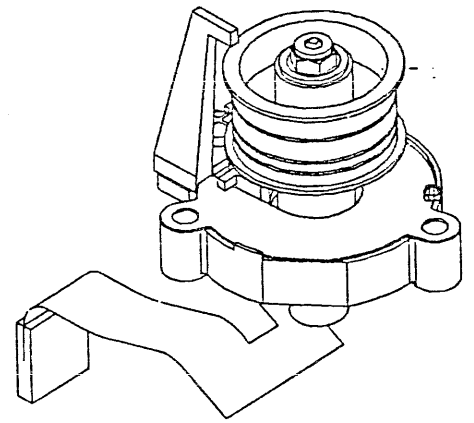
NOTES:

1. FLANGES OF BEARING TO BE SEATED TIGHTLY.
2. ASSEMBLE ITEMS 13, 4, 7 AND 9 BEFORE ASSEMBLING ONTO SPINDLE OF ITEM 1. BLACK SURFACE OF ITEM 13 MUST BE TOWARD ITEM 4.
3. ITEMS 14 COVER TACHOMETER ASSY, SEE 7025966-01.

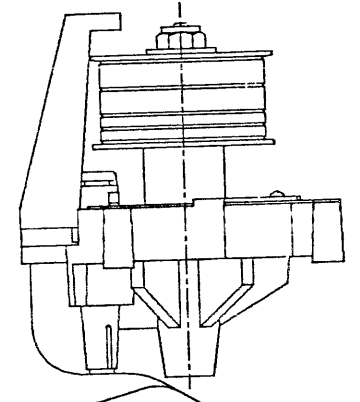
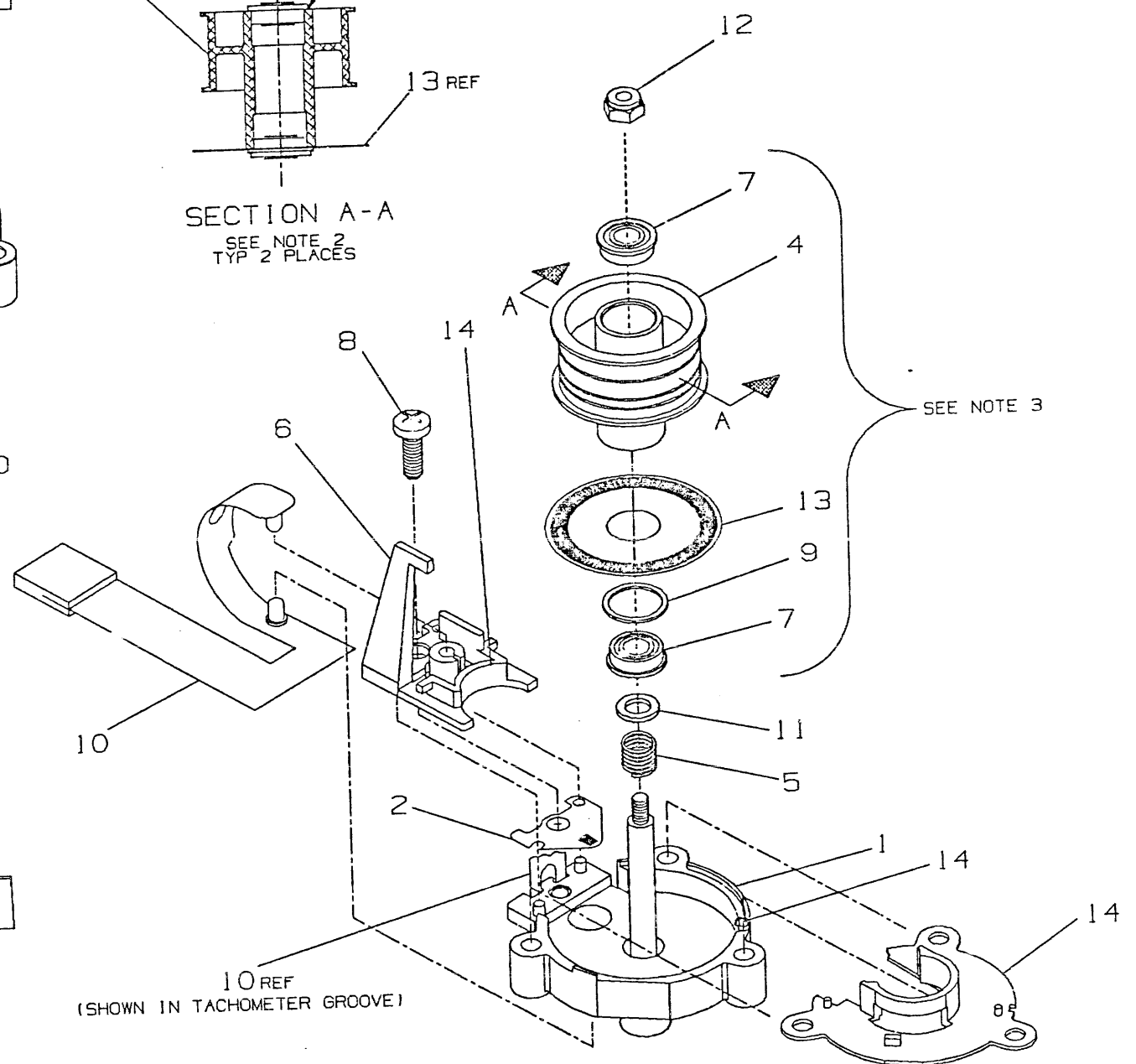
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SECTION A-A  
SEE NOTE 2  
TYP 2 PLACES



SHOWN ASSEMBLED



SHOWN ASSEMBLED

CAUTION  
OFF SHEET PARTS LIST EXISTS  
SEE K-PL-7024659-0-DBP  
MAG. MEDIA FILENAME: 7024659-0-DBUA

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
DIMENSION RANGE IN INCHES			
INCHES	ANGLES	APPLICABLE DIMENSION RANGE	
.XX ± .J	± 30°	OVER 10 TO 12.0	± .10
.XXX ± .02		OVER 10 TO 40.0	± .10
.XXX ± .005		OVER 10 TO 80.0	± .10
		OVER 10 TO 120.0	± .10
		OVER 10 TO 400.0	± .10
		OVER 10 TO 800.0	± .10
		OVER 10 TO 1200.0	± .10
		OVER 10 TO 2000.0	± .10
		OVER 10 TO 4000.0	± .10
		OVER 10 TO 8000.0	± .10
		OVER 10 TO 12000.0	± .10
		OVER 10 TO 20000.0	± .10
		OVER 10 TO 40000.0	± .10
		OVER 10 TO 80000.0	± .10
		OVER 10 TO 120000.0	± .10
		OVER 10 TO 200000.0	± .10
		OVER 10 TO 400000.0	± .10
		OVER 10 TO 800000.0	± .10
		OVER 10 TO 1200000.0	± .10
		OVER 10 TO 2000000.0	± .10
		OVER 10 TO 4000000.0	± .10
		OVER 10 TO 8000000.0	± .10
		OVER 10 TO 12000000.0	± .10
		OVER 10 TO 20000000.0	± .10
		OVER 10 TO 40000000.0	± .10
		OVER 10 TO 80000000.0	± .10
		OVER 10 TO 120000000.0	± .10
		OVER 10 TO 200000000.0	± .10
		OVER 10 TO 400000000.0	± .10
		OVER 10 TO 800000000.0	± .10
		OVER 10 TO 1200000000.0	± .10
		OVER 10 TO 2000000000.0	± .10
		OVER 10 TO 4000000000.0	± .10
		OVER 10 TO 8000000000.0	± .10
		OVER 10 TO 12000000000.0	± .10
		OVER 10 TO 20000000000.0	± .10
		OVER 10 TO 40000000000.0	± .10
		OVER 10 TO 80000000000.0	± .10
		OVER 10 TO 120000000000.0	± .10
		OVER 10 TO 200000000000.0	± .10
		OVER 10 TO 400000000000.0	± .10
		OVER 10 TO 800000000000.0	± .10
		OVER 10 TO 1200000000000.0	± .10
		OVER 10 TO 2000000000000.0	± .10
		OVER 10 TO 4000000000000.0	± .10
		OVER 10 TO 8000000000000.0	± .10
		OVER 10 TO 12000000000000.0	± .10
		OVER 10 TO 20000000000000.0	± .10
		OVER 10 TO 40000000000000.0	± .10
		OVER 10 TO 80000000000000.0	± .10
		OVER 10 TO 120000000000000.0	± .10
		OVER 10 TO 200000000000000.0	± .10
		OVER 10 TO 400000000000000.0	± .10
		OVER 10 TO 800000000000000.0	± .10
		OVER 10 TO 1200000000000000.0	± .10
		OVER 10 TO 2000000000000000.0	± .10
		OVER 10 TO 4000000000000000.0	± .10
		OVER 10 TO 8000000000000000.0	± .10
		OVER 10 TO 12000000000000000.0	± .10
		OVER 10 TO 20000000000000000.0	± .10
		OVER 10 TO 40000000000000000.0	± .10
		OVER 10 TO 80000000000000000.0	± .10
		OVER 10 TO 120000000000000000.0	± .10
		OVER 10 TO 200000000000000000.0	± .10
		OVER 10 TO 400000000000000000.0	± .10
		OVER 10 TO 800000000000000000.0	± .10
		OVER 10 TO 1200000000000000000.0	± .10
		OVER 10 TO 2000000000000000000.0	± .10
		OVER 10 TO 4000000000000000000.0	± .10
		OVER 10 TO 8000000000000000000.0	± .10
		OVER 10 TO 12000000000000000000.0	± .10
		OVER 10 TO 20000000000000000000.0	± .10
		OVER 10 TO 40000000000000000000.0	± .10
		OVER 10 TO 80000000000000000000.0	± .10
		OVER 10 TO 120000000000000000000.0	± .10
		OVER 10 TO 200000000000000000000.0	± .10
		OVER 10 TO 400000000000000000000.0	± .10
		OVER 10 TO 800000000000000000000.0	± .10
		OVER 10 TO 1200000000000000000000.0	± .10
		OVER 10 TO 2000000000000000000000.0	± .10
		OVER 10 TO 4000000000000000000000.0	± .10
		OVER 10 TO 8000000000000000000000.0	± .10
		OVER 10 TO 12000000000000000000000.0	± .10
		OVER 10 TO 20000000000000000000000.0	± .10
		OVER 10 TO 40000000000000000000000.0	± .10
		OVER 10 TO 80000000000000000000000.0	± .10
		OVER 10 TO 120000000000000000000000.0	± .10
		OVER 10 TO 200000000000000000000000.0	± .10
		OVER 10 TO 400000000000000000000000.0	± .10
		OVER 10 TO 800000000000000000000000.0	± .10
		OVER 10 TO 1200000000000000000000000.0	± .10
		OVER 10 TO 2000000000000000000000000.0	± .10
		OVER 10 TO 4000000000000000000000000.0	± .10
		OVER 10 TO 8000000000000000000000000.0	± .10
		OVER 10 TO 12000000000000000000000000.0	± .10
		OVER 10 TO 20000000000000000000000000.0	± .10
		OVER 10 TO 40000000000000000000000000.0	± .10
		OVER 10 TO 80000000000000000000000000.0	± .10
		OVER 10 TO 120000000000000000000000000.0	± .10
		OVER 10 TO 200000000000000000000000000.0	± .10
		OVER 10 TO 400000000000000000000000000.0	± .10
		OVER 10 TO 800000000000000000000000000.0	± .10
		OVER 10 TO 1200000000000000000000000000.0	± .10
		OVER 10 TO 2000000000000000000000000000.0	± .10
		OVER 10 TO 4000000000000000000000000000.0	± .10
		OVER 10 TO 8000000000000000000000000000.0	± .10
		OVER 10 TO 12000000000000000000000000000.0	± .10
		OVER 10 TO 20000000000000000000000000000.0	± .10
		OVER 10 TO 40000000000000000000000000000.0	± .10
		OVER 10 TO 80000000000000000000000000000.0	± .10
		OVER 10 TO 120000000000000000000000000000.0	± .10
		OVER 10 TO 200000000000000000000000000000.0	± .10
		OVER 10 TO 400000000000000000000000000000.0	± .10
		OVER 10 TO 800000000000000000000000000000.0	± .10
		OVER 10 TO 1200000000000000000000000000000.0	± .10
		OVER 10 TO 2000000000000000000000000000000.0	± .10
		OVER 10 TO 4000000000000000000000000000000.0	± .10
		OVER 10 TO 8000000000000000000000000000000.0	± .10
		OVER 10 TO 12000000000000000000000000000000.0	± .10
		OVER 10 TO 20000000000000000000000000000000.0	± .10
		OVER 10 TO 40000000000000000000000000000000.0	± .10
		OVER 10 TO 80000000000000000000000000000000.0	± .10
		OVER 10 TO 120000000000000000000000000000000.0	± .10
		OVER 10 TO 200000000000000000000000000000000.0	± .10
		OVER 10 TO 400000000000000000000000000000000.0	± .10
		OVER 10 TO 800000000000000000000000000000000.0	± .10
		OVER 10 TO 1200000000000000000000000000000000.0	± .10
		OVER 10 TO 2000000000000000000000000000000000.0	± .10
		OVER 10 TO 4000000000000000000000000000000000.0	± .10
		OVER 10 TO 8000000000000000000000000000000000.0	± .10
		OVER 10 TO 12000000000000000000000000000000000.0	± .10
		OVER 10 TO 20000000000000000000000000000000000.0	± .10
		OVER 10 TO 40000000000000000000000000000000000.0	± .10
		OVER 10 TO 80000000000000000000000000000000000.0	± .10
		OVER 10 TO 120000000000000000000000000000000000.0	± .10
		OVER 10 TO 200000000000000000000000000000000000.0	± .10
		OVER 10 TO 400000000000000000000000000000000000.0	± .10
		OVER 10 TO 800000000000000000000000000000000000.0	± .10
		OVER 10 TO 1200000000000000000000000000000000000.0	± .10
		OVER 10 TO 2000000000000000000000000000000000000.0	± .10
		OVER 10 TO 4000000000000000000000000000000000000.0	± .10
		OVER 10 TO 8000000000000000000000000000000000000.0	± .10
		OVER 10 TO 12000000000000000000000000000000000000.0	± .10
		OVER 10 TO 20000000000000000000000000000000000000.0	± .10
		OVER 10 TO 40000000000000000000000000000000000000.0	± .10
		OVER 10 TO 80000000000000000000000000000000000000.0	± .10
		OVER 10 TO 120000000000000000000000000000000000000.0	± .10
		OVER 10 TO 200000000000000000000000000000000000000.0	± .10
		OVER 10 TO 400000000000000000000000000000000000000.0	± .10
		OVER 10 TO 800000000000000000000000000000000000000.0	± .10
		OVER 10 TO 1200000000000000000000000000000000000000.0	± .10
		OVER 10 TO 2000000000000000000000000000000000000000.0	± .10
		OVER 10 TO 4000000000000000000000000000000000000000.0	± .10
		OVER 10 TO 8000000000000000000000000000000000000000.0	± .10
		OVER 10 TO 12000000000000000000000000000000000000000.0	± .10
		OVER 10 TO 200.0	± .10
		OVER 10 TO 400.0	± .10
		OVER 10 TO 800.0	± .10
		OVER 10 TO 1200.0	± .10
		OVER 10 TO 2000.0	± .10
		OVER 10 TO 4000.0	± .10
		OVER 10 TO 8000.0	± .10
		OVER 10 TO 12000.0	± .10
		OVER 10 TO 200.0	± .10
		OVER 10 TO 400.0	± .10
		OVER 10 TO 800.0	± .10
		OVER 10 TO 1200.0	± .10
		OVER 10 TO 2000.0	± .10
		OVER 10 TO 4000.0	± .10
		OVER 10 TO 8000.0	± .10
		OVER 10 TO 12000.0	± .10
		OVER 10 TO 200.0	± .10
		OVER 10 TO 400.0	

AUTOMATED BY VAXKPL (V2.0)

PARTS LIST

SHEET A1 OF A1  
QUANTITY PER VARIATION/REVISION

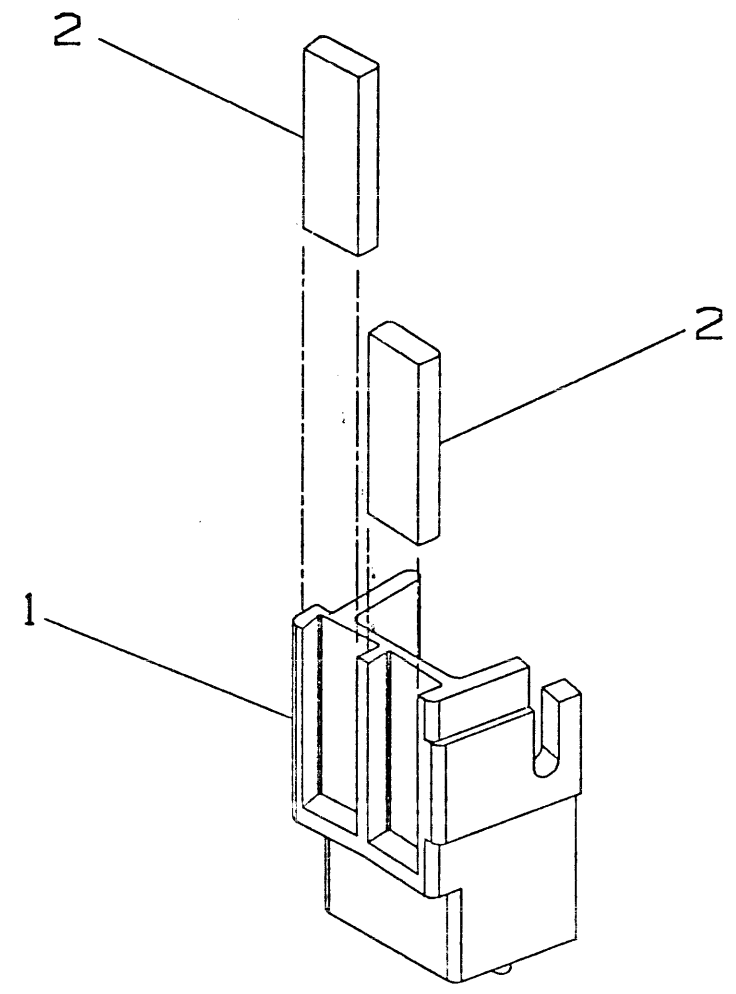
LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY
1	E-IA-7432341-0-DBU	74-32341-01		BODY, TACOMETER	1
2	D-MD-7429220-0-DBU	74-29220-01		MASK, ENCODER	1
3	C-MD-7432342-0-DBU	74-32342-01		*** THIS ITEM IS NOT USED ***	-
4	D-MD-7434038-0-DBU	74-34038-01		CAPSTAN, TACHOMETER	1
5		12-13656-05		SPRING, COMPRESSION .23500X .83 LG	1
6	D-MD-7432343-0-DBU	74-32343-01		GUIDE, TACOMETER	1
7		12-22788-01		BEARING, BALL, FLANGED	2
8		90-09800-00		SCREW, THD RL, FLAT PHIL F/PLAS	1
9	B-MD-7431389-0-DBU	74-31389-01		RING, SUPPORT, CAPSTAN	1
10		17-01088-01		CIRCUIT FLEX ASSY	1
11		12-24692-03		WASHER, FLAT	1
12		90-08054-00		NUT, HEX SLF LCKNG NYL INS 4-40X	1
13	D-MD-7427698-0-DBU	74-27698-01		DISK, ENCODER, TACHOMETER	1
14	C-IA-7025966-0-DBU	70-25966-01 A		COVER TACHOMETER ASSEMBLY	1

REVISION HISTORY		KPL MATRIX FORMAT SECTION A OF A		DRN: C.W.FIELDS	D I G I T A L		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE: 23-FEB-87	TITLE PARTS LIST		
	INITIAL	A	[A] 01	CHK'D: K.CRANSON	TACHOMETER ASSEMBLY		
EW	7024659-SH001	B	[B]	DATE: 23-FEB-87	DOCUMENT NUMBER		
PB	7024659-SH002	C	[C]	DES.ENG: E.STELTZER	SIZE	CODE	NUMBER
			[D]	DATE: 23-FEB-87	K	PL	7024659-0-DBP
			[E]	RESP.ENG.: E.STELTZER	REV		
			[F]	DATE: 23-FEB-87	C		
			[H]	MFG.ENG: L.RAMSAY	RELEASE DATE: 11-OCT-88		
			[J]	DATE: 23-FEB-87	RELEASE STATUS: RELEASED		
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		EDIT #	
7024659		D-AD-7024659-0-DBU		D-AD-7024659-0-DBU		2	
FILE NAME: SH458C.PLS							

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LEGEND		
PART NO.	REV	VARIATION
7021141-01	A1	AS SHOWN



CAUTION  
 OFF SHEET PARTS LIST EXISTS  
 SEE K-PL-7021141-0-DBP

REV.	CHG. NO.	INITIAL
A		

FIRST HIGHER ASS'Y  
 E-UA-TK50-0-DBU

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)							
INCHES TOLERANCES .X: ± .1 .XX: ± .02 .XXX: ± .005	ANGLES ±0° 30'  SURFACE QUALITY <input checked="" type="checkbox"/> MICROINCHES	DIMENSION RANGE IN INCHES					
		APPLICABLE DIMENSION RANGE (CHECK ONE)	OVER TO	OVER TO	OVER TO	OVER TO	OVER TO
		<input type="checkbox"/> 0 TO 0.2	<input type="checkbox"/> 0.2 TO 1.2	<input type="checkbox"/> 1.2 TO 4.0	<input type="checkbox"/> 4.0 TO 12.0	<input type="checkbox"/> 12.0 TO 40.0	<input type="checkbox"/> 40.0 TO 60.0
		<input type="checkbox"/> ±.004	<input type="checkbox"/> ±.008	<input type="checkbox"/> ±.012	<input type="checkbox"/> ±.018	<input type="checkbox"/> ±.024	<input type="checkbox"/> ±.04
THIRD ANGLE PROJECTION 	DRN H.A. OLSON	DATE 3/14/84	TITLE EXTERNAL SHIELD ASSEMBLY				
DO NOT SCALE DRAWING	CHK'D E. WESTER	DATE 3/14/84	DOCUMENT NUMBER 7021141-0-DBU				
REMOVE BURRS AND BREAK SHARP CORNERS	DES. ENG. E. WESTER	DATE 3/14/84	REV. A				
MATERIAL SEE PARTS LIST	RESP. ENG. G. SCHNEIDER	DATE 3/14/84	SCALE 2:1				
FINISH	MFG. ENG. W. HARRIS	DATE 3/14/84	SHEET 1 OF 1				

SIZE CODE C IA  
 NUMBER 7021141-0-DBU  
 REV. A

AUTOMATED BY PRTLST.5R(55)

PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION
1	1	D-MD-7429208-0-DBU	7429208-01		BRACKET, EXTERNAL SHIELD	1
2	2	B-MD-7429371-0-DBU	7429371-01		SHEILD,HEAD	2

REVISION HISTORY		BASIC PART NO: 7021141		DRN: C.W.FIELDS	DATE: 16-MAR-85	D I G I T A L	
ENG!	ECO NUMBER	REV	SECTION A OF A	CHK'D: E.WESTER	DATE: 16-MAR-85	TITLE PARTS LIST EXTERNAL SHIELD ASSY	
---	INITIAL	A	SECTION VARIATION INDEX (A)01	DES.ENG: E.WESTER	DATE: 16-MAR-85	DOCUMENT NUMBER	
			(B)	RESP.ENG.: G.SCHNEIDER	DATE: 16-MAR-85	SIZE	CODE
			(C)	MFG.ENG.: W.HARRIS	DATE: 16-MAR-85	PL	7021141-0-DBP
			(D)	ASSEMBLY NUMBER: C-IA-7021141-0-DBU	DATE: 16-MAR-85	NUMBER	REV
			(E)				A
			(F)			RELEASE DATE: 28-MAR-85	
				TOP DOCUMENT NUMBER: C-IA-7021141-0-DBU	FILE NAME: Z7647A.PLS	EDIT # 5	

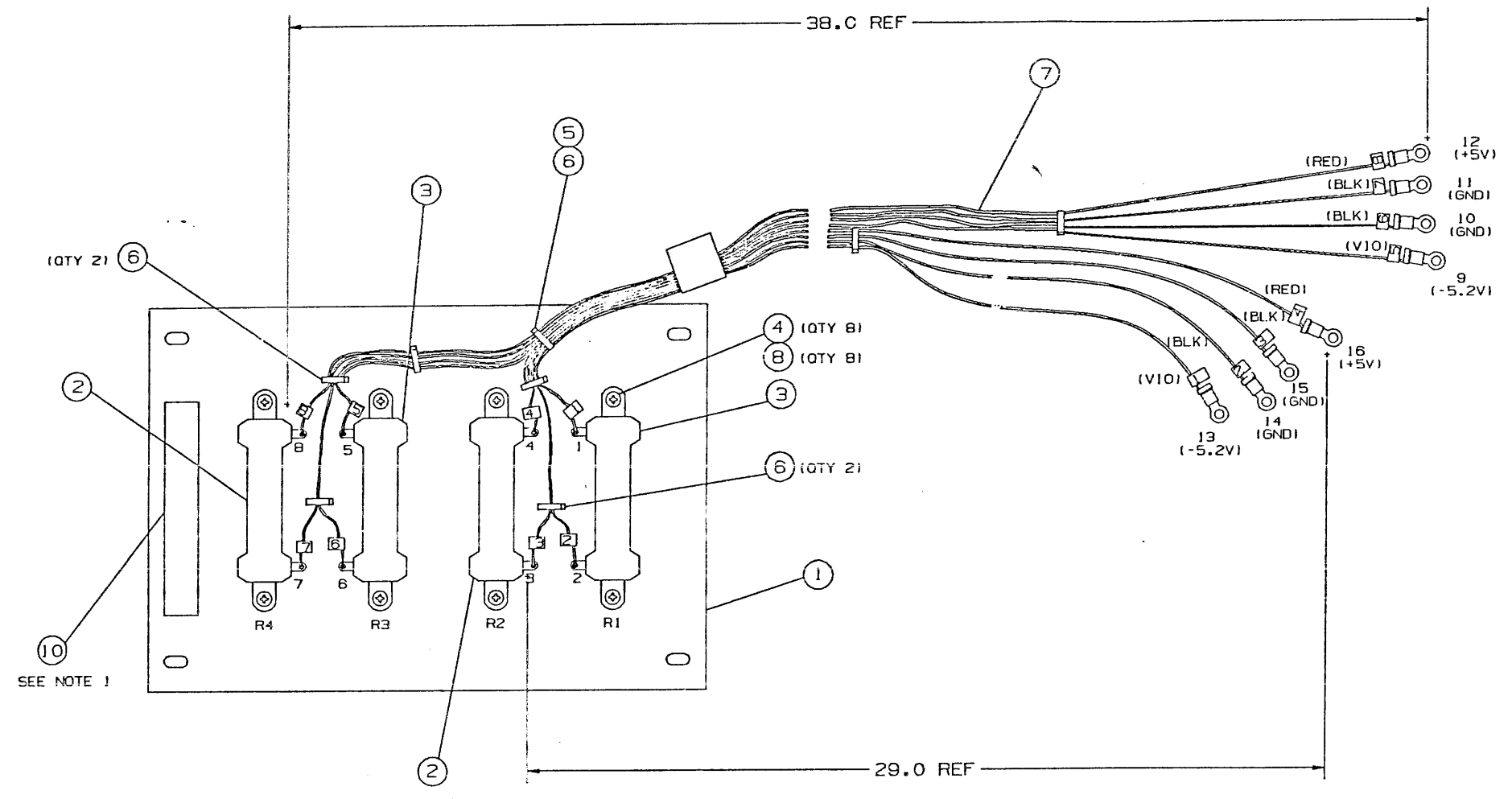
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WIRE TABLE													
RUN NO.	ITEM NO.	AWG	COLOR	LGTH	POINT	STRIP	TERM	CONN	POINT	STRIP	TERM	CONN	REMARKS
1	7	18	VIO	29.0	R1-1			SOLDER	13				-5.2V (VAR -01 & -02)
2	7	18	BLK	32.0	R1-2			SOLDER	14				GND (VAR -01 & -02)
3	7	18	BLK	32.0	R2-3			SOLDER	15				GND (VAR -01 & -02)
4	7	18	RED	30.0	R2-4			SOLDER	16				+5V (VAR -01 & -02)
5	7	18	VIO	37.0	R3-5			SOLDER	9				-5.2V (VAR -01 ONLY)
6	7	18	BLK	41.0	R3-6			SOLDER	10				GND (VAR -01 ONLY)
7	7	18	BLK	41.0	R4-7			SOLDER	11				GND (VAR -01 ONLY)
8	7	18	RED	38.0	R4-8			SOLDER	12				+5V (VAR -01 ONLY)

LEGEND		
PART NO	REV	VARIATION
7023417-01	D2	AS SHOWN SHEET 1
7023417-02	D2	AS SHOWN SHEET 2

NOTES:  
1. UNITS TO BE SERIALIZED PER DEC STD'S 031, 047, AND 131.



VARIATION -01

LAYER #1: WORK LAYER SHT. 1  
LAYER #2: FORMAT LAYER SHT. 1  
LAYER #3: WORK LAYER SHT. 2  
LAYER #4: FORMAT LAYER SHT. 2  
PLOT AT 1.00

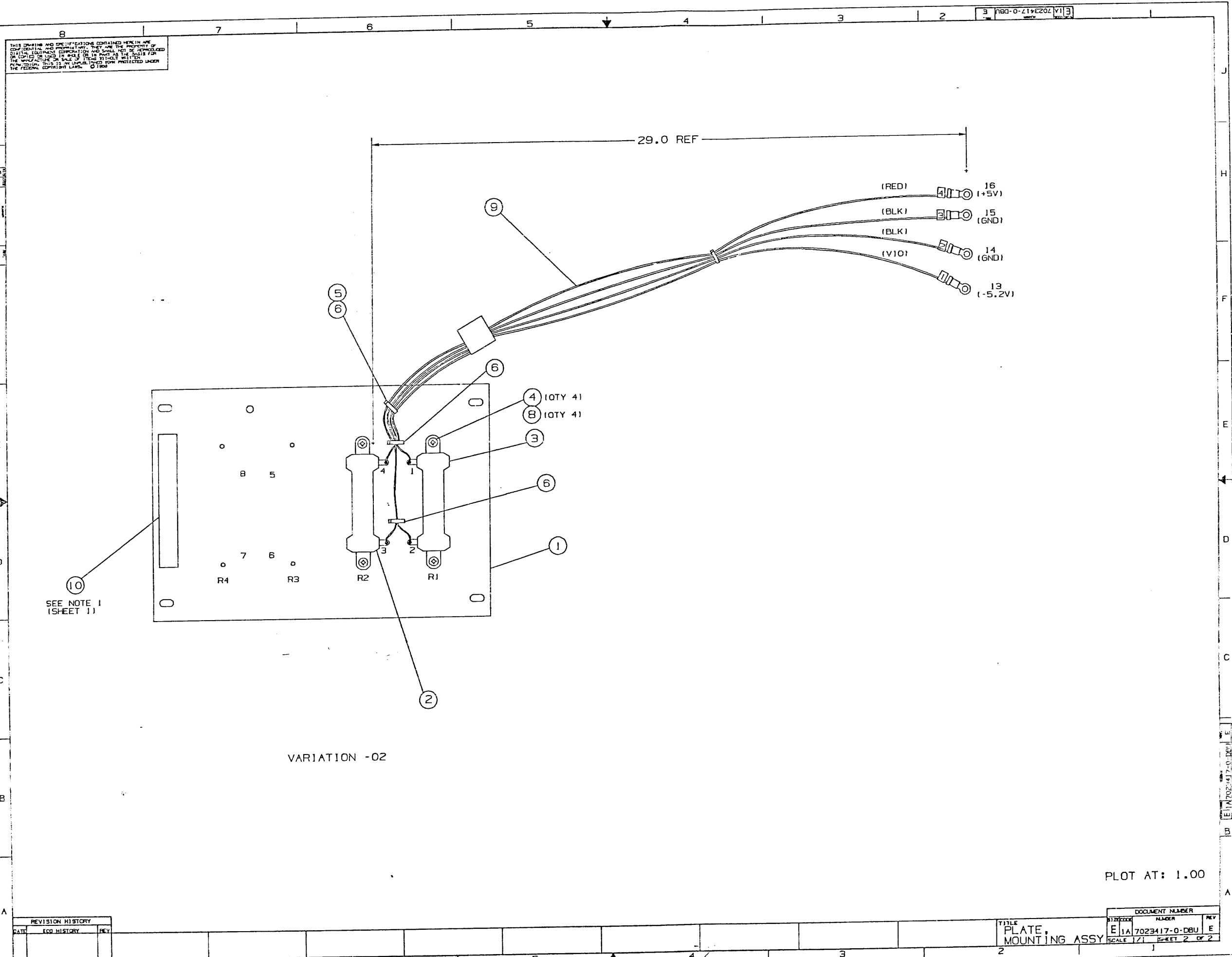
CAUTION: OFF SHEET PARTS LIST EXISTS, SEE K-PL-7023417-0-DBP.

REV	DATE	BY	CHKD	INITIAL
A	18 JAN 68	L. BRANHAM		
B	18 JAN 68	F. D'ATHEN		
C	18 JAN 68	F. D'ATHEN		
D	18 JAN 68	F. D'ATHEN		
E	18 JAN 68	F. D'ATHEN		
F	18 JAN 68	F. D'ATHEN		
G	18 JAN 68	F. D'ATHEN		
H	18 JAN 68	F. D'ATHEN		
I	18 JAN 68	F. D'ATHEN		
J	18 JAN 68	F. D'ATHEN		
K	18 JAN 68	F. D'ATHEN		
L	18 JAN 68	F. D'ATHEN		
M	18 JAN 68	F. D'ATHEN		
N	18 JAN 68	F. D'ATHEN		
O	18 JAN 68	F. D'ATHEN		
P	18 JAN 68	F. D'ATHEN		
Q	18 JAN 68	F. D'ATHEN		
R	18 JAN 68	F. D'ATHEN		
S	18 JAN 68	F. D'ATHEN		
T	18 JAN 68	F. D'ATHEN		
U	18 JAN 68	F. D'ATHEN		
V	18 JAN 68	F. D'ATHEN		
W	18 JAN 68	F. D'ATHEN		
X	18 JAN 68	F. D'ATHEN		
Y	18 JAN 68	F. D'ATHEN		
Z	18 JAN 68	F. D'ATHEN		

DESCRIPTION		DRAWING NO.		PART NO.		REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)						
DIMENSION RANGE IN INCHES		DIMENSION RANGE IN INCHES				
.000 - .009		.000 - .009				
.010 - .024		.010 - .024				
.025 - .049		.025 - .049				
.050 - .074		.050 - .074				
.075 - .149		.075 - .149				
.150 - .249		.150 - .249				
.250 - .499		.250 - .499				
.500 - .999		.500 - .999				
1.000 - 2.499		1.000 - 2.499				
2.500 - 4.999		2.500 - 4.999				
5.000 - 9.999		5.000 - 9.999				
10.000 - 24.999		10.000 - 24.999				
25.000 - 49.999		25.000 - 49.999				
50.000 - 99.999		50.000 - 99.999				
100.000 - 249.999		100.000 - 249.999				
250.000 - 499.999		250.000 - 499.999				
500.000 - 999.999		500.000 - 999.999				
1000.000 - 2499.999		1000.000 - 2499.999				
2500.000 - 4999.999		2500.000 - 4999.999				
5000.000 - 9999.999		5000.000 - 9999.999				
10000.000 - 24999.999		10000.000 - 24999.999				
25000.000 - 49999.999		25000.000 - 49999.999				
50000.000 - 99999.999		50000.000 - 99999.999				
100000.000 - 249999.999		100000.000 - 249999.999				
250000.000 - 499999.999		250000.000 - 499999.999				
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VARIATION -02

PLOT AT: 1.00

REVISION HISTORY		
DATE	ECO HISTORY	REV

TITLE		DOCUMENT NUMBER	
PLATE MOUNTING ASSY		SCALE 1/1	SHEET 2 OF 2
REV	NUMBER	DATE	BY
E	1A	7023417-0-DBU	E

AUTOMATED BY VAXKPL (V2.1-1)

OWNER: MKO

PARTS LIST

SHEET A1

OF A1  
PAGE 1 OF 1  
QUANTITY PER VARIATION/REVISION

LINE	ITEM	TOP DOCUMENT	PART NUMBER	DESCRIPTION	01 D02	02 D02
1	1	D-IA-7433239-0-DBU	74-33239-01	PLATE,MTG.,BI EXTERNAL LOAD	1	1
2	2		13-09084-00	1.0 55.0 W 5.0 % WW	2	1
3	3		13-00155-00	2.0 55.0 W 5.0 % WW	2	1
4	4		90-06040-01	SCREW,MACH 8-32 PAN .625 XRCS	8	4
5	5		90-07867-00	MOUNT,PUSH,CABLE TIE	1	1
6	6		90-07031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	5	3
7	7		17-01308-01	WIRE HARN ASSY 18AWG 8RING	1	-
8	8		90-08151-00	WASHER,LOCK EXTERNAL STEEL	8	4
9	9		17-01324-01	WIRE HARN ASSY 04COND 18AWG 4RING	-	1
10	10		36-22147-06	LABEL,BAR CODE,THERMAL 1.00 X 2.5	1	1

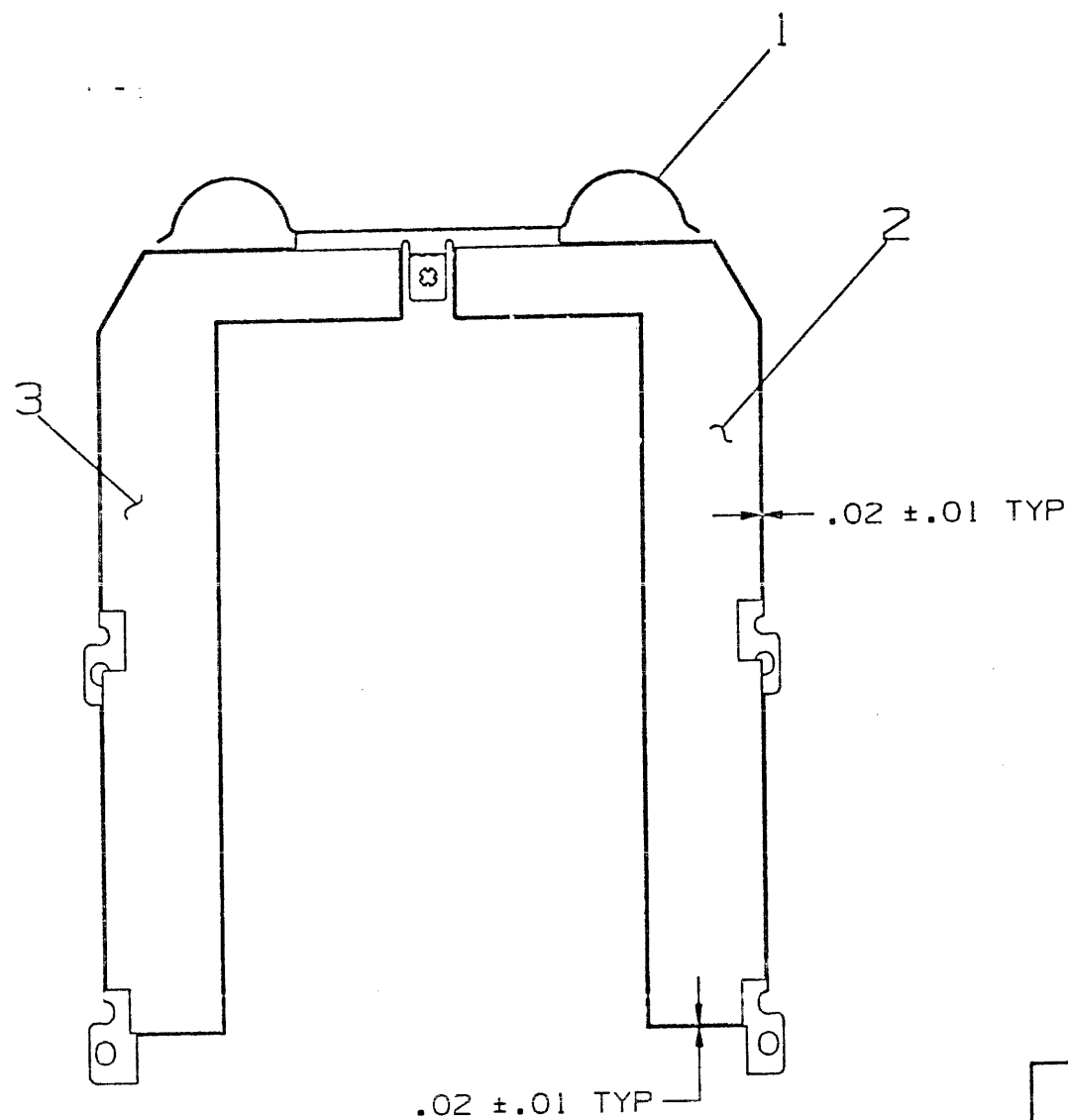
REVISION HISTORY		KPL MATRIX FORMAT		SECTION A OF A	DRN: J. KERSEY	DIGITAL		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 04-DEC-85	TITLE PARTS LIST		
	INITIAL	A	[A]	01,02	CHK'D: T. CHACKO	PLATE, MOUNTING ASSY		
	F.O 7023417-LTN01	B	[B]		DATE: 14-JAN-86	DOCUMENT NUMBER		
	FO 7023417-LTN02	C	[C]		DES.ENG: L. GRAHAM	SIZE	CODE	NUMBER
	FOB 7023417-LTN03	D	[D]		DATE: 14-JAN-86	K	PL	7023417-0-DBP
	MR 7023417-MK004	E	[E]		RESP.ENG.: P. LETVINCHUK	REV		
			[F]		DATE: 14-JAN-86	RELEASE DATE: 07-NOV-89		
			[H]		MFG.ENG: D. LEVINSON	RELEASE STATUS: RELEASED		
			[J]		DATE: 14-JAN-86	TOP DOCUMENT NUMBER: E-IA-7023417-0-DBU		
BASIC PART NUMBER: 7023417		ASSEMBLY NUMBER: E-IA-7023417-0-DBU		EDIT #		2		
FILE NAME: 7023417E.PLS								

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LEGEND		
PART NO.	REV	VARIATION
7021765-01	A1	AS SHOWN

NOTE :



CAUTION  
 OFF SHEET PARTS LIST EXISTS  
 SEE K-PL-7021765-DBP

FIRST HIGHER ASS'Y  
 E-UA-TK50-0-DBU

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSION RANGE	
		10-EXC ONE	
.X: ± .1 .XX: ± .02 .XXX: ± .005	SURFACE QUALITY  <input checked="" type="checkbox"/> MICROINCHES	DIMENSION RANGE IN INCHES	
		OVER 0 TO 0.2	OVER 0.2 TO 1.2
		OVER 1.2 TO 4.0	OVER 4.0 TO 12.0
		OVER 12.0 TO 40.0	OVER 40.0 TO 60.0
		±.004	±.008
		±.012	±.016
		±.024	±.04
QUANTITY & VARIATION	THIRD ANGLE PROJECTION	DRN M. O'DONNELL	DATE 27SEPT84
	DO NOT SCALE DRAWING	CHK'D E. WESTER	DATE 20 DEC 84
	REMOVE BURRS AND BREAK SHARP CORNERS	DES. ENG. M. O'DONNELL	DATE 27SEPT84
	MATERIAL SEE PARTS LIST	RESP. ENG. G. SCHNEIDER	DATE 20 DEC 84
		MFG. ENG. K. CRANSON	DATE 20 DEC 84
		TOP DOC.	
		TITLE	
		INSULATOR ASSY	
		DOCUMENT NUMBER	
		7021765-0-DBU	
		SIZE CODE NUMBER	REV.
		C AD	A

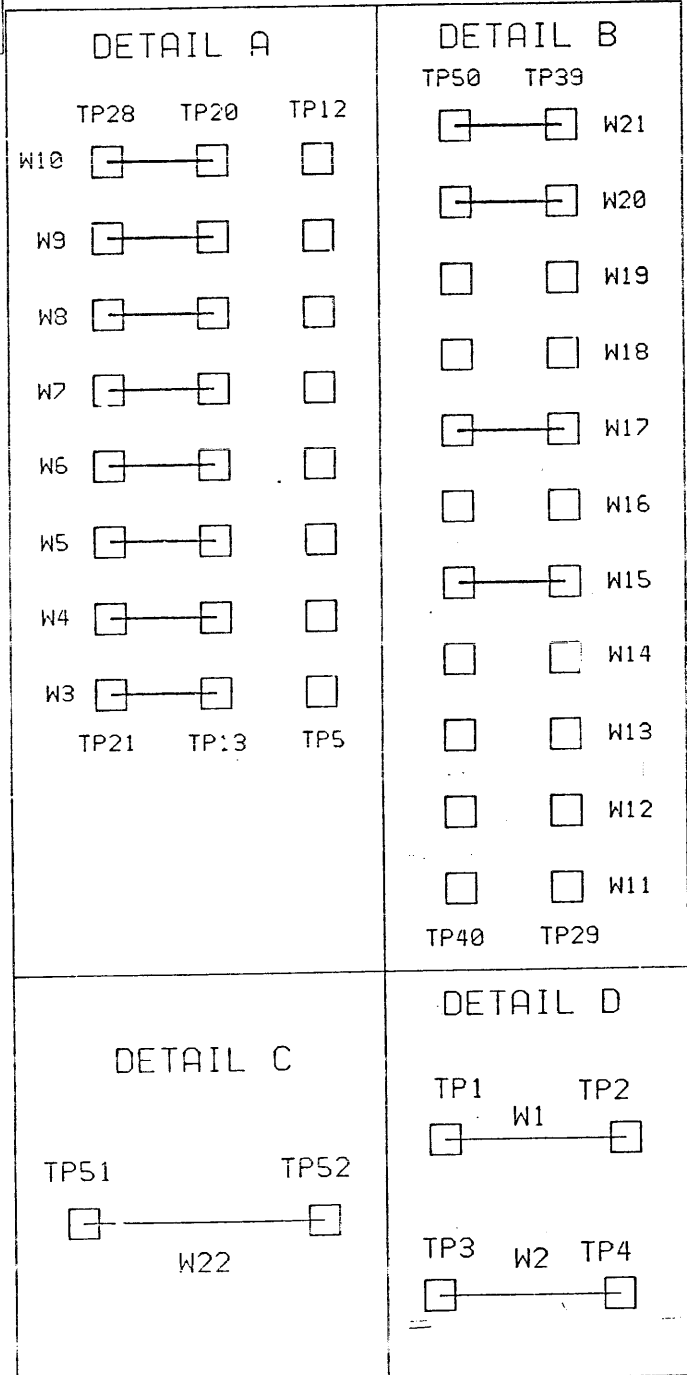
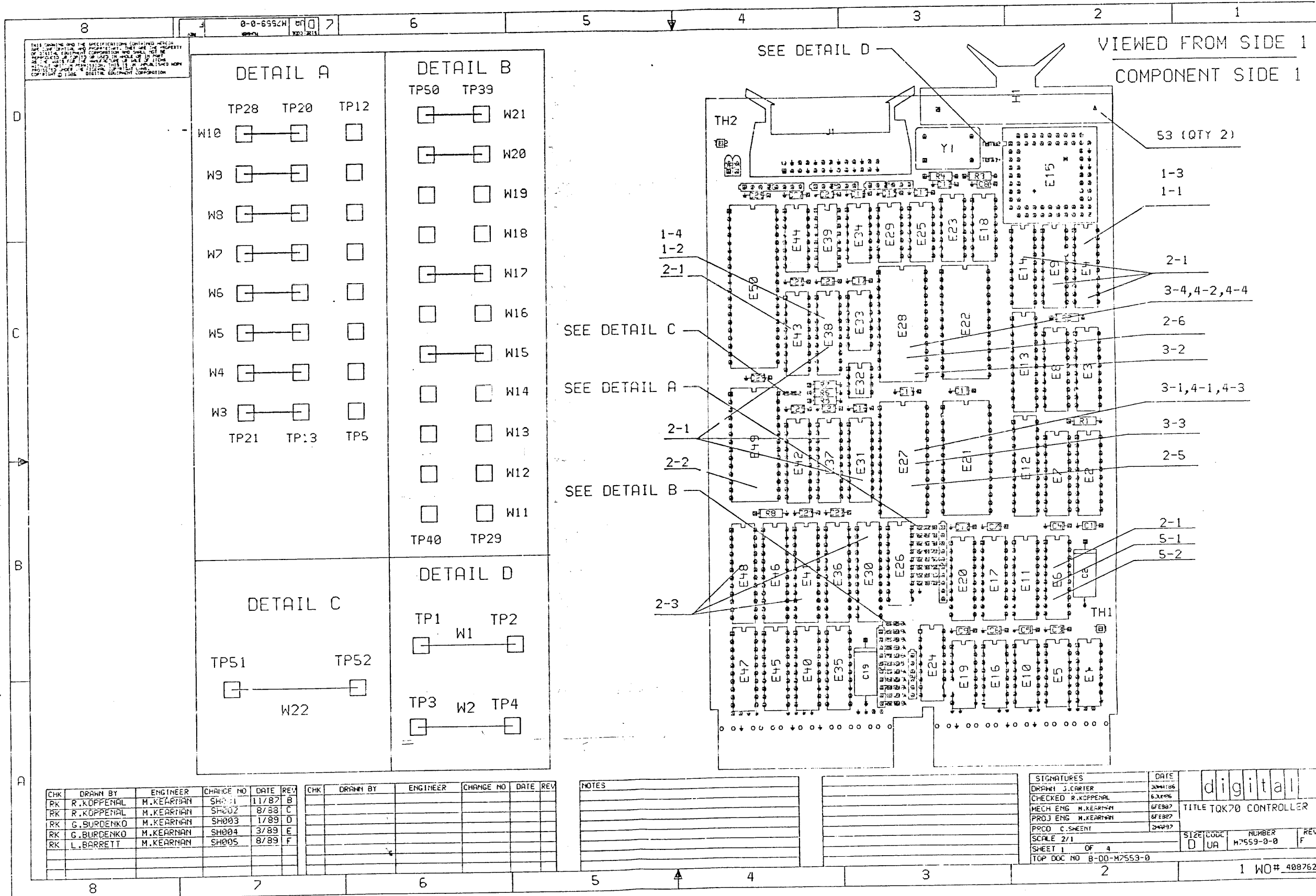
REVISIONS	CHANGE NO.	REV.	INITIAL
		A	

SIZE CODE C AD  
 NUMBER 7021765-0-DBU  
 REV. A

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION
1	1	D-MD-7430814-0-DBU	7430814-01		CLIP GROUNDING REWORKED	1
2	2	C-MD-7431149-0-DBU	7431149-02		INSULATOR, SKID PLATE, R.H.	1
3	3	C-MD-7431149-0-DBU	7431149-01		INSULATOR, SKID PLATE, L.H.	1

REVISION HISTORY			BASIC PART NO: 7021765		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	DRN:	M. O'DONNELL	DATE: 30-JAN-85
---	INITIAL	A	SECTION VARIATION INDEX [A]01	CHK'D:	E. WESTER	DATE: 30-JAN-85
			[B]	DES. ENG:	M. O'DONNELL	DATE: 27-SEP-84
			[C]	RESP. ENG.:	G. SCHNEIDER	DATE: 30-JAN-85
			[D]	MFG. ENG.:	K. CRANSON	DATE: 30-JAN-85
			[E]	ASSEMBLY NUMBER:	C-AD-7021765-0-DBU	TOP DOCUMENT NUMBER: C-AD-7021765-0-DBU
			[F]			FILE NAME: SH136A.PLS
						RELEASE DATE: 26-FEB-85
						DOCUMENT NUMBER: 7021765-0-DBP
						SIZE: K CODE: PL
						REV: A
						EDIT #: 7

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CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV
RK	R. KOPPENAL	M. KEARNAN	SH001	11/87	B
RK	R. KOPPENAL	M. KEARNAN	SH002	8/88	C
RK	G. BURDENKO	M. KEARNAN	SH003	1/89	D
RK	G. BURDENKO	M. KEARNAN	SH004	3/89	E
RK	L. BARRETT	M. KEARNAN	SH005	8/89	F

CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

NOTES

SIGNATURES		DATE
DRAWN	J. CARTER	30/11/88
CHECKED	R. KOPPENAL	5/3/89
MECH ENG	M. KEARNAN	6/8/87
PROJ ENG	M. KEARNAN	6/8/87
POCD	C. SHEENT	2/4/87

SCALE 2/1 OF 4  
SHEET 1  
TOP DOC NO B-00-M7553-0

digital

TITLE TQK70 CONTROLLER

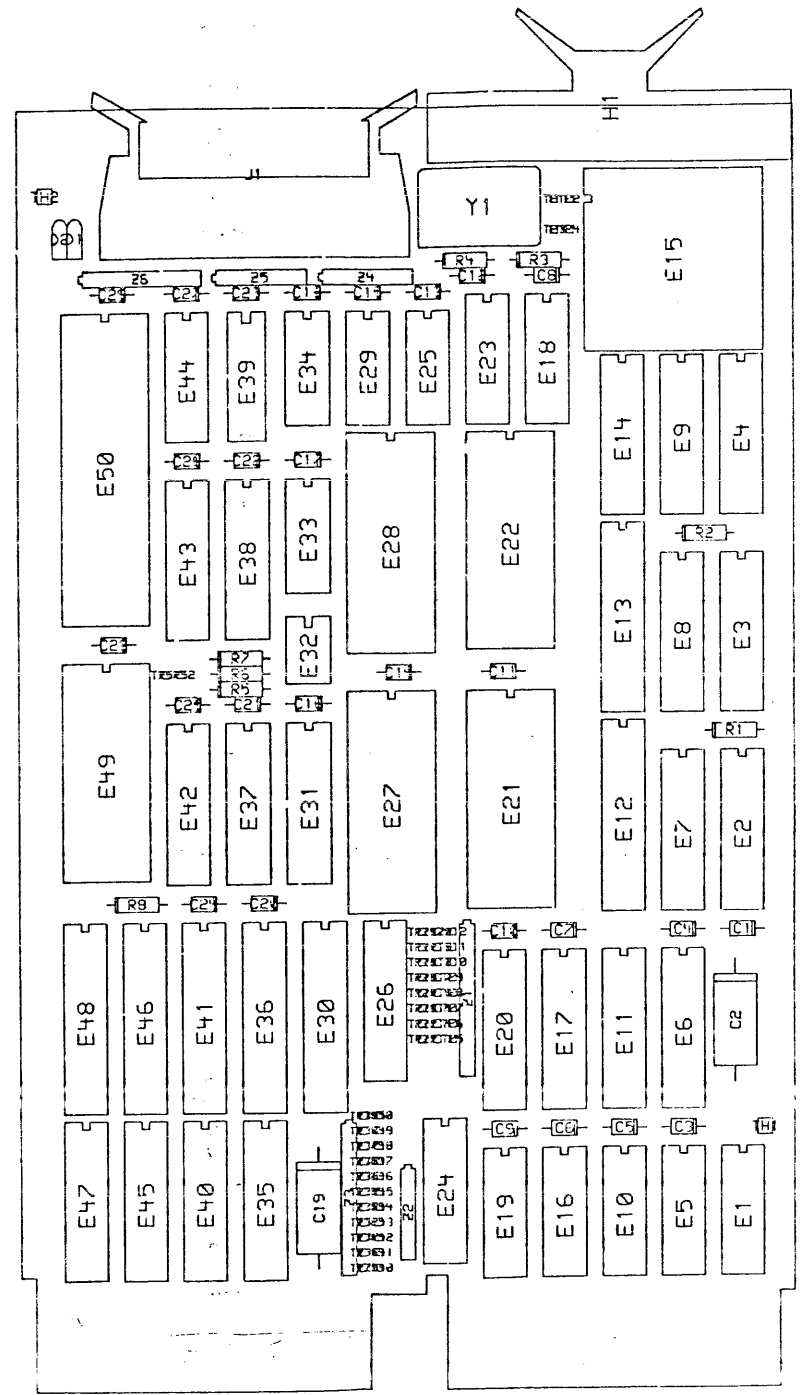
SIZE CODE D UA NUMBER M7553-0-0 REV F

1 WO# 408762

8 7 6 5 4 3 2 1

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VIEWED FROM SIDE 1  
COMPONENT SIDE 1



8 7 6 5 4 3 2 1

TITLE  
TOK70 CONTROLLER

DOCUMENT NUMBER		REV
D	UA	F
M2559-0-0		
SCALE 2/1	SHEET 2 OF 4	

1 WO# 408762

147559-0-0

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0-0-8994H 00 7

# REWORK INSTRUCTIONS :

## ECO # 1 SIDE 1

### COMPONENT DELETE :

- 1-1. DELETE P/N 23-192K3-00, E4.
- 1-2. DELETE P/N 23-94K4-00, E38.

### COMPONENT ADD :

- 1-3. ADD P/N 23-219K3-00, E4.
- 1-4. ADD P/N 23-123K4-00, E38.

## ECO # 2 SIDE 1

### COMPONENT DELETE :

- 2-1. DELETE P/N 12-15006-04 SKT, IC 20 PIN DIP QTY. 8 REF DES. XE4,XE6,XE9,XE14,XE31,XE37,XE38,XE43.
- 2-2. DELETE P/N 12-15006-07 SKT, IC 28 PIN DIP QTY. 1 REF DES. XE49.
- 2-3. DELETE P/N 12-15006-13 SKT, IC 24 PIN DIP QTY. 3 REF DES. XE30,XE41,XE48.
- 2-4. DELETE P/N 23-E6 -05 32KX8 UV EPROM 150NS QTY. 2 REF DES. E27. E28.

### COMPONENT ADD :

- 2-5. ADD P/N 23-157E6-00 32KX8 UV EPROM 150NS QTY. 1 REF DES. E27.
- 2-5. ADD P/N 12-158E6-00 32KX8 UV EPROM 150NS QTY. 1 REF DES. E28.

### NOTES :

1. SOCKET REMOVAL: MODULE REV LEVEL A1 & A2 BOARDS ARE NOT TO BE REWORKED.
2. EPROM REPLACEMENT: MODULE REV LEVEL A1 & A2 BOARDS ARE TO BE UPDATED. THIS IS DETERMINED BY THE 'EPROMS LABEL' DATE CODE OR RELEASE CODE AS FOLLOWS:

EPROM LOCATION	*DATED CODE	RELEASED CODE
E27	7/23 L	23-157E6-00
E28	7/23 H	23-158E6-00

\* ANY DATED CODE EARLIER THAN 7/23 HAS TO BE REPLACED.

TITLE  
TOK70 CONTROLLER

DOCUMENT NUMBER  
SCALE 2/1 SHEET 3 OF 4

1 WO# 408762

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**REWORK INSTRUCTIONS :**

**ECO # 3**

**SIDE 1**

COMPONENT DELETE :

3-1. DELETE P/N 23-157E6-00 32KX8 UV EPROM 150NS QTY. 1, REF DES. E27.

3-2. DELETE P/N 23-158E6-00 32KX8 UV EPROM 150NS QTY.1, REF DES. E28.

COMPONENT ADD :

3-3. ADD P/N 23-363E6-00 32KX8 UV EPROM 150NS QTY. 1, REF DES. E27.

3-4. ADD P/N 23-364E6-00 32KX8 UV EPROM 150NS QTY. 1, REF DES. E28.

**ECO # 4**

**SIDE 1**

COMPONENT DELETE :

4-1. DELETE P/N 23-363E6-00 32KX8 UV EPROM 250NS QTY. 1, REF DES. E27.

4-2. DELETE P/N 23-364E6-00 32KX8 UV EPROM 250NS QTY. 1, REF DES. E28.

COMPONENT ADD :

4-3. ADD P/N 23-410E6-00 32KX8 UV EPROM 150NS QTY. 1, REF DES. E27.

4-4. ADD P/N 23-411E6-00 32KX8 UV EPROM 150NS QTY. 1, REF DES. E28.

**ECO # 5**

**SIDE 1**

COMPONENT DELETE :

5-1. P/N 23-304J5-00 J5-01 PAL, LOGIC REF.DES. E6

COMPONENT ADD :

5-2. P/N 23-510J5-00 J5-01 PAL, LOGIC REF. DES. E6



LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
						00 C3	
1	1	B-DD-5017635-0	50-17635-01		CIRCUIT DRILL AND ETCH	1	
2	2		10-12084-01		8.0 MFD 25V +75/-10% 85	2	C2,C19
3	3		10-12784-00		0.047MFD 50V +80/-20% Z5U C	27	C1,C3-C18,C20-C29
4	4		11-14136-01		LED 6.5MA 5V 1.2MCD	2	D1,D2
5	5		12-15006-04		*** THIS ITEM IS NOT USED ***	-	
6	6		12-15006-07		SKT,IC 28PIN DIP TIN SOLD	2	XE27,XE28
7	7		12-15006-13		*** THIS ITEM IS NOT USED ***	-	
8	8		12-16832-01		PCB,HEADER 26POS(2X13).100CC 90D	1	J1
9	9		12-18783-00		JUMPER 02POS(1X02).100CC	15	W1-W10,W15,W17,W20-W22
10	10		12-23339-01		SKT,IC 68PIN	1	XE15
11	11		13-00219-00		68.0 .25 W 5.0 % CF	7	R1,R2,R4-R8
12	12		13-00365-00		1.0 K .25 W 5.0 % CF	1	R3
13	13		13-16395-02		R. NET 1.0K- 9 2.0	2	Z1,Z3
14	14		13-21219-01		R. NET 330.0 - 4 680.0 - 4 2.0	1	Z2
15	15		13-22716-01		R. NET 120.0 - 7 2.0	1	Z6
16	16		13-26490-01		R. NET 240.0 - 5 2.0	2	Z4,Z5
17	17		18-11660-24		OSCILLATOR, XTAL 18.084 MHZ	1	Y1
18	18		19-12730-00		DC 003 INTERRUPT,2 CIRCUIT	1	E24
19	19		19-12805-00		LS08 AND GATE-QUAD 2IN,PO	1	E29
20	20		19-12824-00		LS74 FF-D DUAL,EDGE TRIGG	1	E33
21	21		19-12842-00		LS138 DECODER-THREE INPUT,	1	E18
22	22		19-12850-00		LS164 SHIFT REG. 8BIT SERI	1	E34
23	23		19-12860-00		LS259 LATCH 8BIT	1	E23
24	24		19-12863-00		LS273 FF-D OCTAL W/CLEAR	1	E26
25	25		19-13040-00		DC 005 TRANSCEIVER 4BIT	4	E35,E40,E45,E47
26	26		19-14987-00		8641-2 TRANSCEIVER,UNIBUS,	5	E1,E5,E10,E16,E19
27	27		19-15123-00		26LS32 RECEIVER,QUAD,EIA RS	1	E39
28	28		19-15193-00		LS244 DRIVER,LINE,OCTAL,TR	3	E11,E17,E20
29	29		19-15218-00		LS245 TRANSCEIVER,BUS,OCTA	2	E7,E8
30	30		19-15219-00		LS373 FF-D OCTAL-TRANSPARE	2	E2,E3

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A	DRN: R. KOPPENAL	DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX			DATE: 17-OCT-86				
---	INITIAL	A	[A]	00	[M]	CHK'D: R. KOPPENAL	TITLE PARTS LIST			
M.K.	M7559-SH001	B	[B]		[N]	DATE: 20-FEB-87	TQK70 CONTROLLER			
M.K.	M7559-SH002	C	[C]		[P]	DES.ENG: MIKE KEARNAN	DOCUMENT NUMBER			
M.K.	M7559-SH003	D	[D]		[Q]	DATE: 20-FEB-87	SIZE	CODE	NUMBER	REV
M.K.	M7559-SH004	E	[E]		[R]	RESP.ENG.: MIKE KEARNAN	K	PL	M7559-0-DBP	E
			[F]		[S]	DATE: 28-NOV-88	RELEASE DATE: 31-MAR-89			
			[H]		[T]	MFG.ENG: G. KIAH	RELEASE STATUS: RELEASED			
			[J]		[V]	DATE: 20-FEB-87				
			[K]		[W]					
			[L]		[Y]					
BASIC PART NUMBER:			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		EDIT #			
M7559			D-UA-M7559-0-0		B-DD-M7559-0		1			
FILE NAME: SH288E.PLS										

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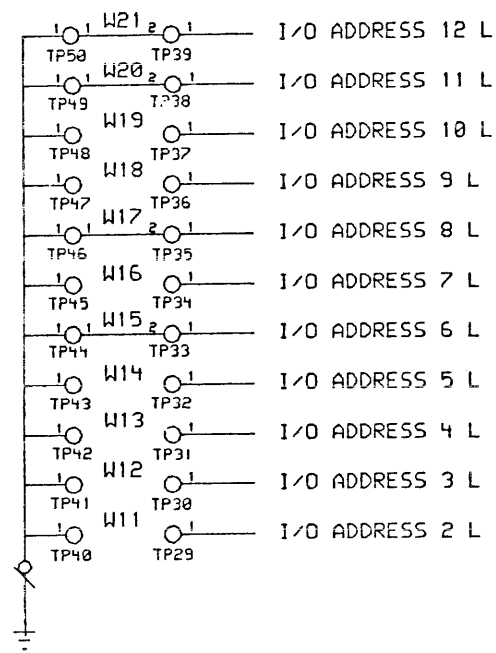
PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
						00 C3	
31	31		19-15851-00		2&LS31 DRIVER, QUAD, EIA RS 4	1	E44
32	32		19-20442-01		74F374 FF-D, OCTAL, TRI-STATE	1	E42
33	33		19-20853-01		LS646 BUS TRANSCEIVER/REGI	2	E12, E13
34	34		21-17872-06		RAM 2KX8 I/O MUXD 20	2	E36, E46
35	35		21-18856-02		7201 CONTROLLER, MULTI-PRO	1	E50
36	36		21-22352-03		80186 MICROPROCESSOR, 16BIT	1	E15
37	37		21-23613-01		256-BIT SERIAL NON-V	1	E32
38	38		21-24640-01		74HCT04 HEX INVERTER	1	E25
39	39		21-26307-02		STATIC MIX-MOS RAM 3	2	E21, E22
40	40		23-10K7 -00	K7-01	PAL, 20X 8	1	E30
41	41		23-11K7 -00	K7-01	PAL, 20X 8	1	E41
42	42		23-12K7 -00	K7-01	PAL, 20X 8	1	E48
43	43		23-192K3-00		*** THIS ITEM IS NOT USED ***	-	
44	44		23-193K3-00	K3-01	PAL, LOGIC	1	E31
45	45		23-304J5-00	J5-01	PAL, LOGIC	1	E6
46	46		23-305J5-00	J5-01	PAL, LOGIC	1	E9
47	47		23-306J5-00	J5-01	PAL, LOGIC	1	E14
48	48		23-307J5-00	J5-01	PAL, LOGIC	1	E37
49	49		23-308J5-00	J5-01	PAL, LOGIC	1	E43
50	50		23-78L1 -00	L1-02		1	E49
51	51		23-94K4 -00		*** THIS ITEM IS NOT USED ***	-	
52	52		23-E6 -05		*** THIS ITEM IS NOT USED ***	-	
53	53		90-06732-00		EYELET, ROLLED 0.1210DX0.219	2	
54	54		90-08337-06		HANDLE, FLIP CHIP, MAGENTA	1	H1
55	55		90-09149-00		PIN, STAKNG 0.0250DX0.345LG SQUAR	52	TP1-TP52
56	56		23-219K3-00	K3-01	PAL, REG	1	E4
57	57		23-123K4-00	K4-03	PAL, HEX REG	1	E38
58	58		23-157E6-00		*** THIS ITEM IS NOT USED ***	-	
59	59		23-158E6-00		*** THIS ITEM IS NOT USED ***	-	
60	60		23-363E6-00		*** THIS ITEM IS NOT USED ***	-	
61	61		23-364E6-00		*** THIS ITEM IS NOT USED ***	-	
62	62		23-410E6-00		E6-04, E6-05, E6-06 OTP-ROM-U	1	E27
63	63		23-411E6-00		E6-04, E6-05, E6-06 CTP-ROM-U	1	E28

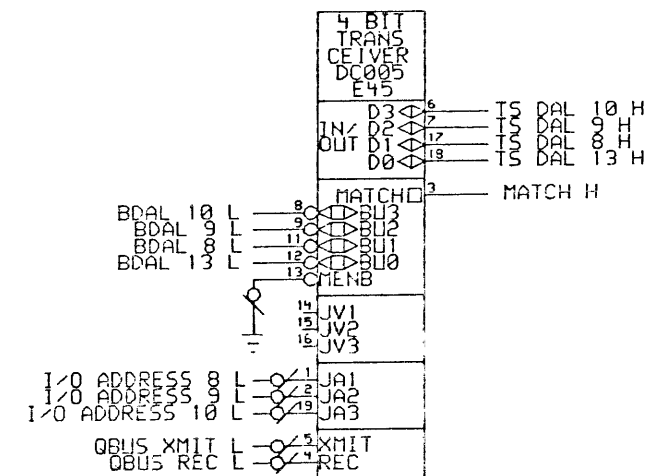
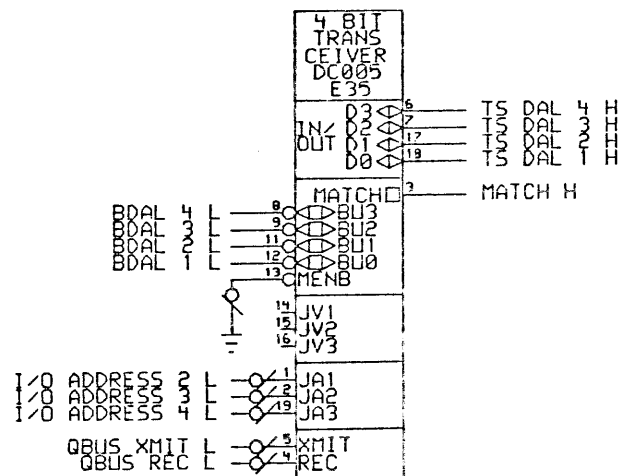
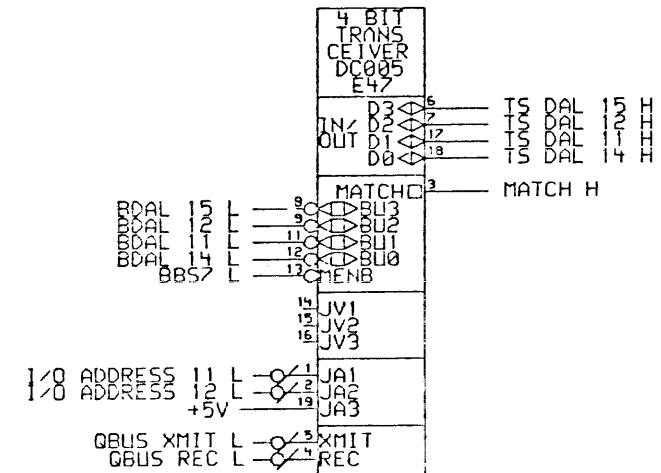
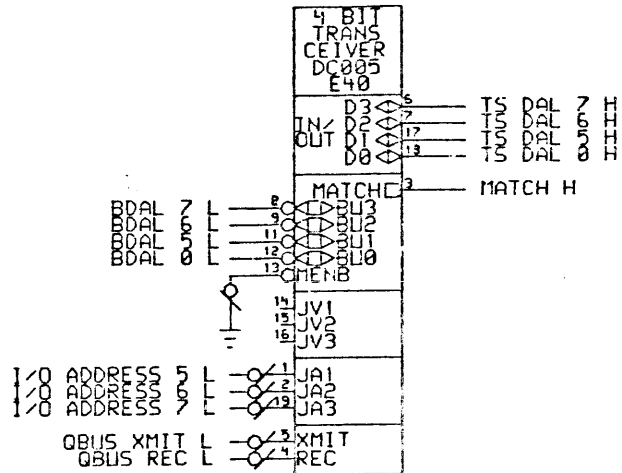
D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TQK70 CONTROLLER		K	PL	M7559-0-DBP	E

# CONTROLLER IP & SA ADDRESS SELECTION

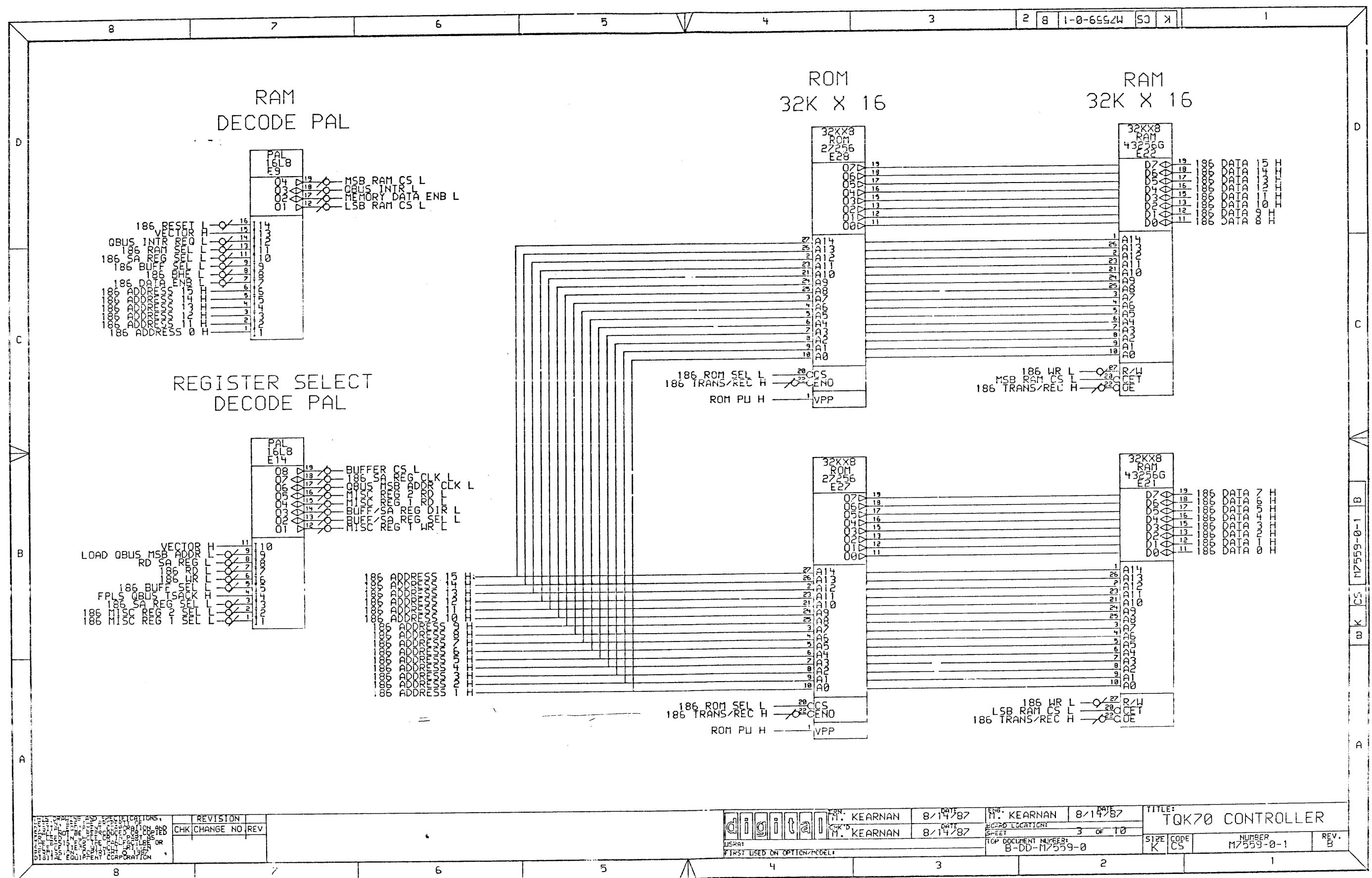
# QBUS DATA TRANSCEIVERS



NOTE: JUMPER INSTALLED = 1  
 JUMPER REMOVED = 0  
 SHOW IS I/O ADDRESS 774500







REV	NO	DATE	BY	CHK

REV	NO	DATE	BY	CHK

	DESIGNED BY: KEARNAN	DATE: 8/14/87	DESIGNED BY: KEARNAN	DATE: 8/14/87	SHEET: 3 OF 10 TOP DOCUMENT NUMBER: B-DD-M7559-0
	CHECKED BY: KEARNAN	DATE: 8/14/87	DATE: 8/14/87	DATE: 8/14/87	

TITLE: TQK70 CONTROLLER		NUMBER: M7559-0-1	REV: B
SIZE: K	CODE: CS		



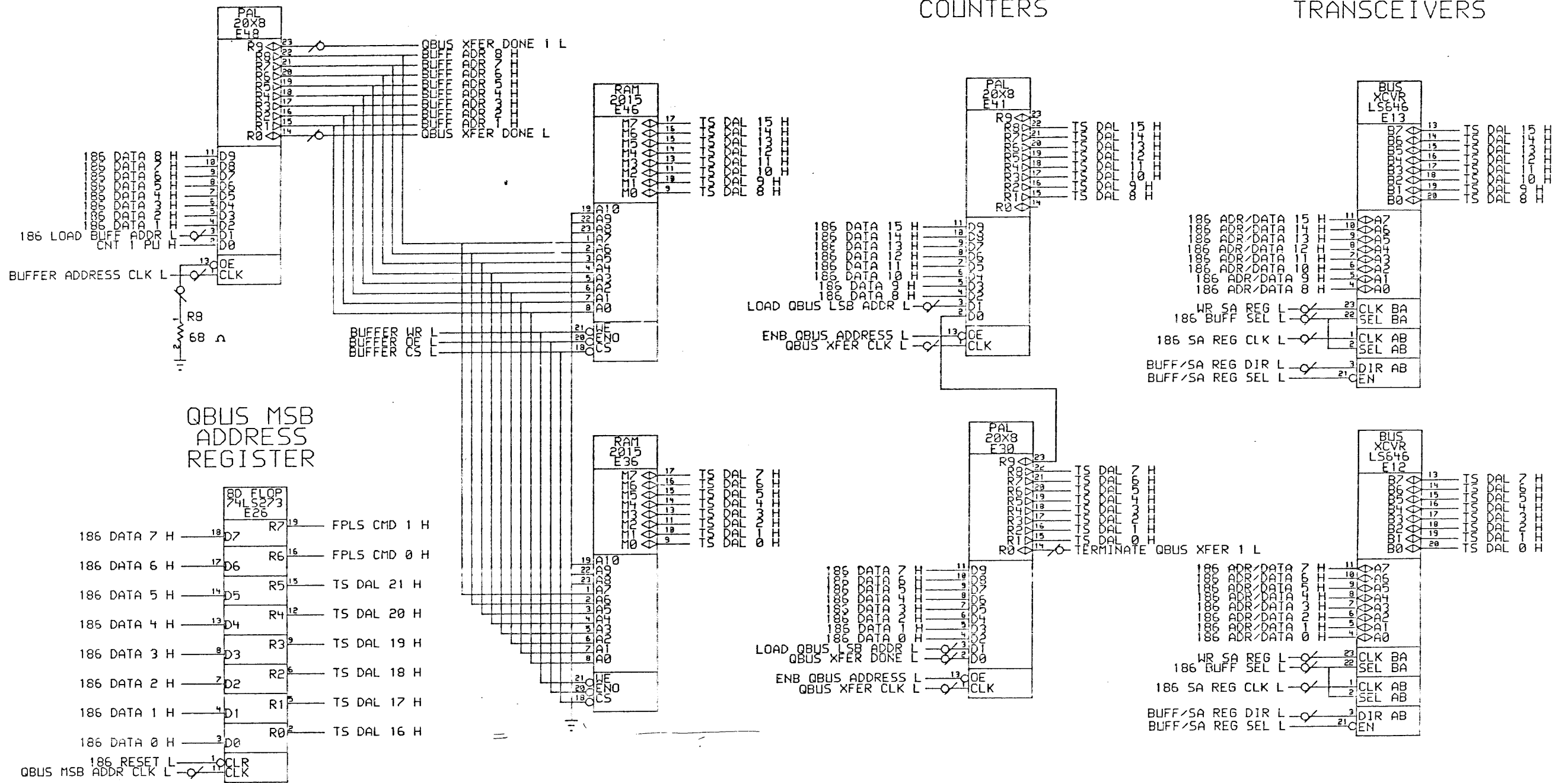


BUFFER ADDRESS COUNTER

256 X 16 DATA BUFFER

QBUS LSB ADDRESS COUNTERS

SA REGISTER & DATA BUFFER TRANSCEIVERS



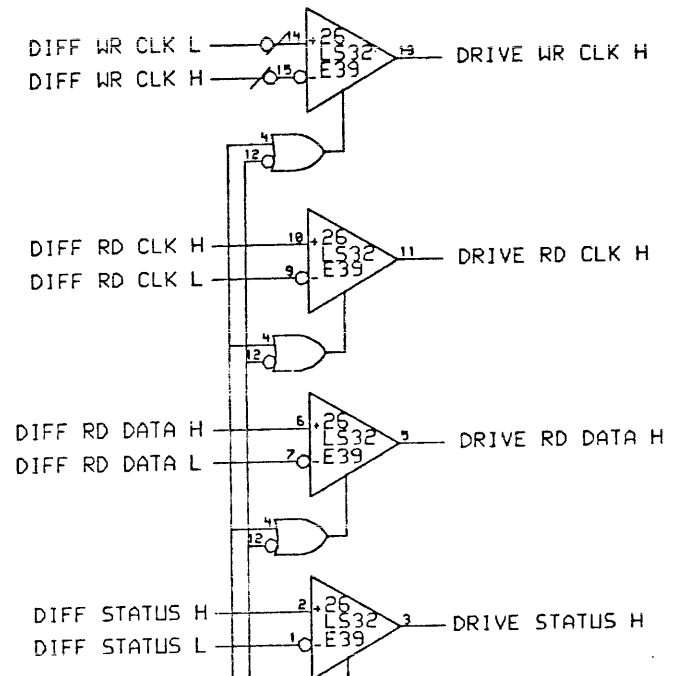
QBUS MSB ADDRESS REGISTER

186 DATA 7 H	D7	R7	19	FPLS CMD 1 H
186 DATA 6 H	D6	R6	16	FPLS CMD 0 H
186 DATA 5 H	D5	R5	15	TS DAL 21 H
186 DATA 4 H	D4	R4	12	TS DAL 20 H
186 DATA 3 H	D3	R3	9	TS DAL 19 H
186 DATA 2 H	D2	R2	6	TS DAL 18 H
186 DATA 1 H	D1	R1	5	TS DAL 17 H
186 DATA 0 H	D0	R0	2	TS DAL 16 H

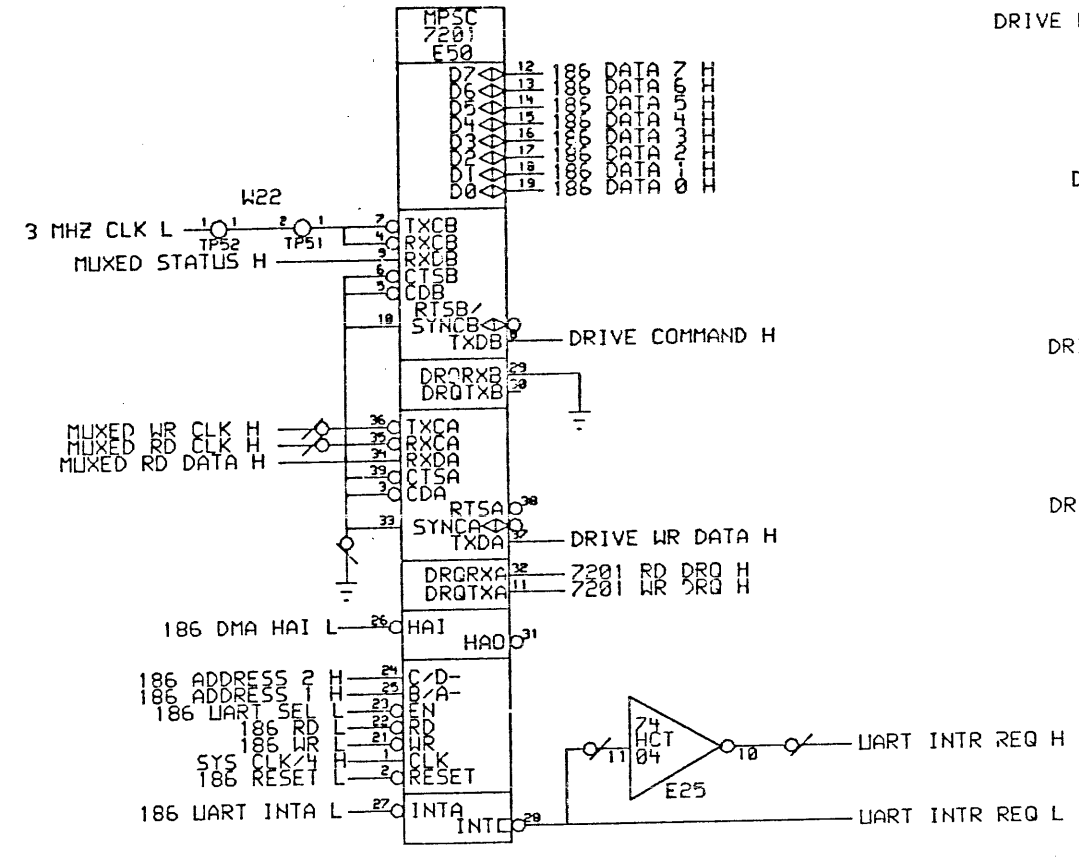




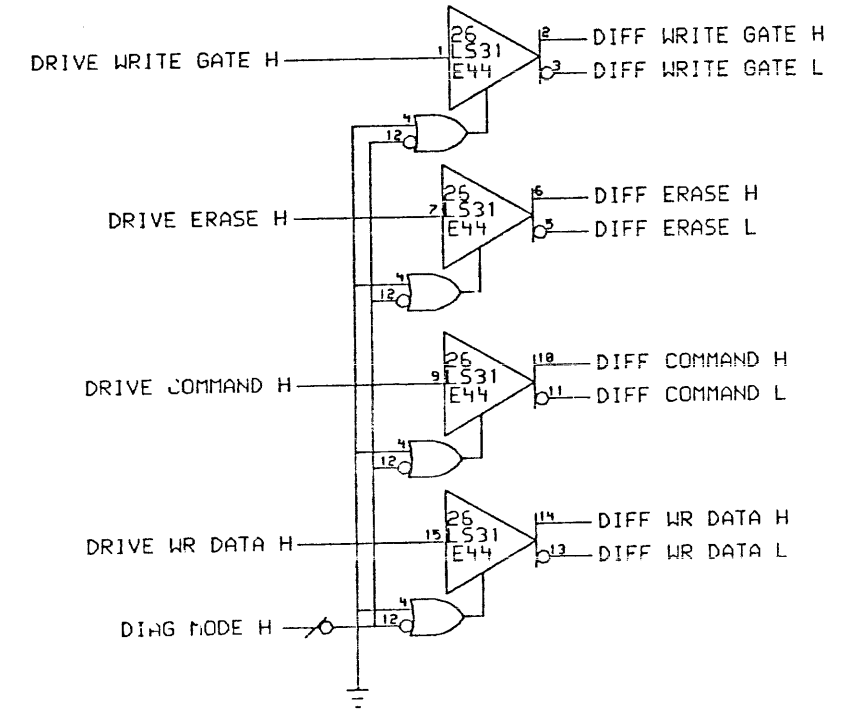
### DRIVE RECEIVERS



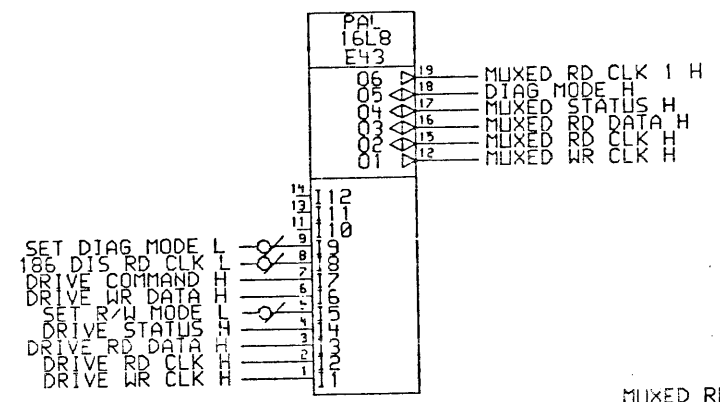
### SERIAL COMMUNICATION CONTROLLER



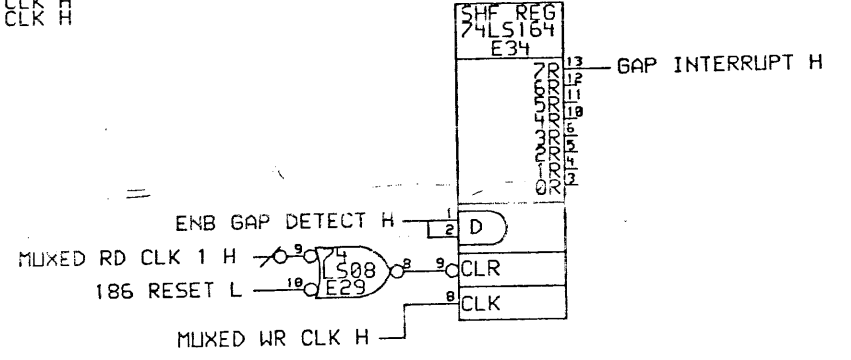
### DRIVE TRANSMITTERS



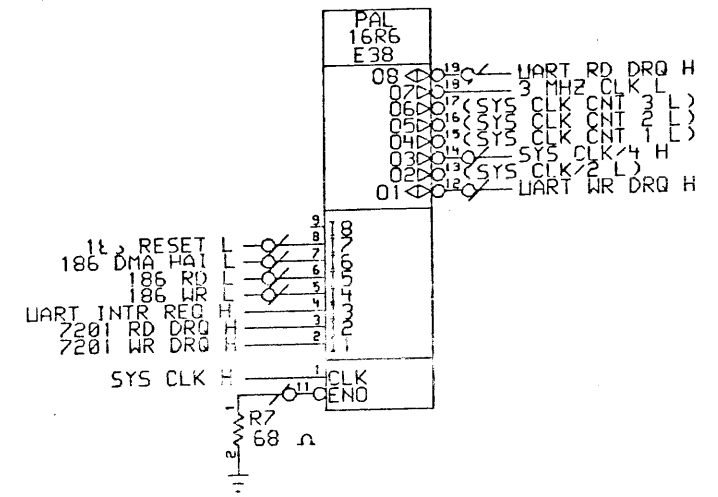
### DIAGNOSTIC MUX PAL



### GAP DETECTION



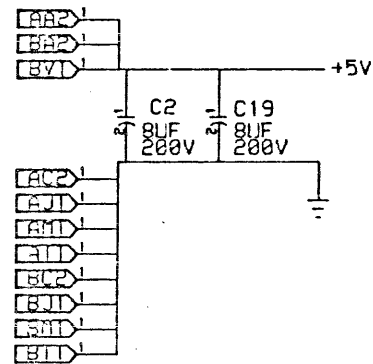
### CLOCK GENERATION PAL



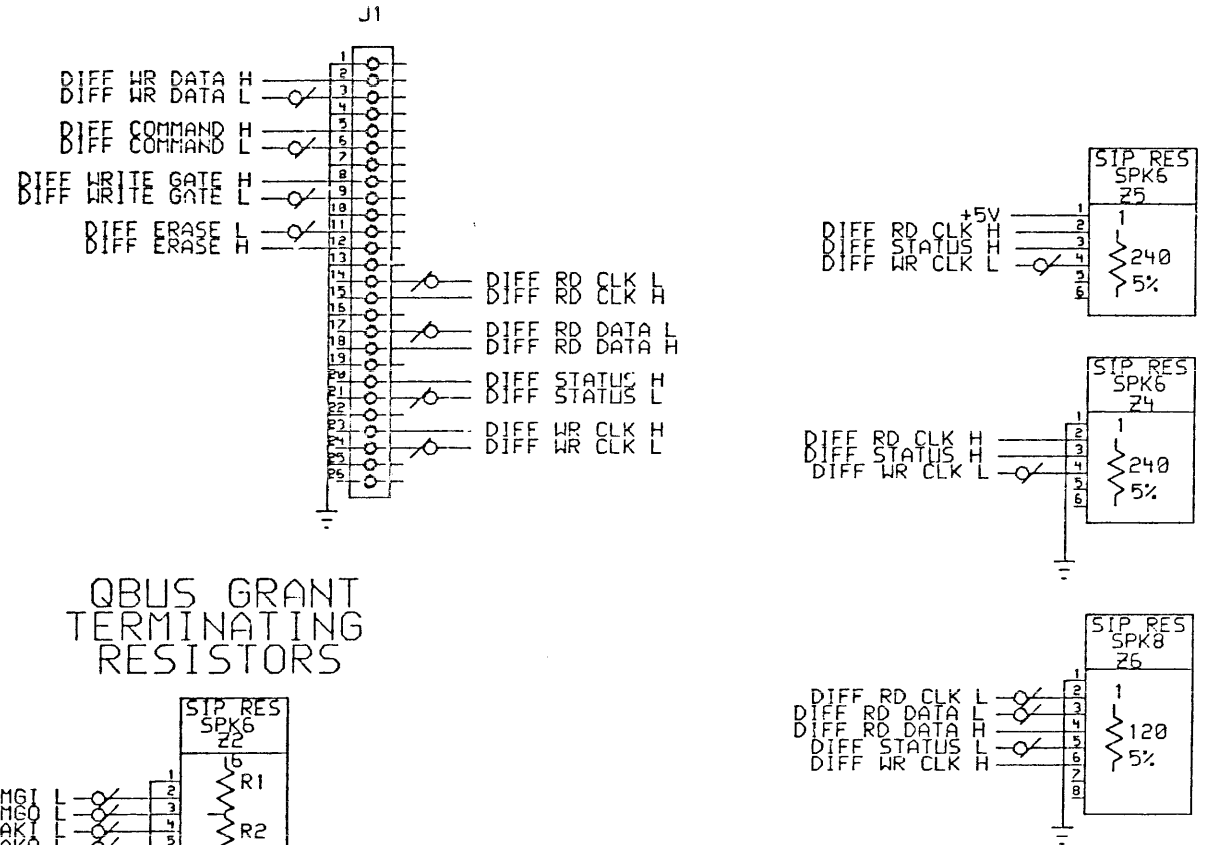
QBUS SIGNAL PINS

- BA1 BDCOK H
- BA2 BINIT L
- BA3 BDAL 21 L
- BA4 BDAL 20 L
- BA5 BDAL 19 L
- BA6 BDAL 18 L
- BA7 BDAL 17 L
- BA8 BDAL 16 L
- BA9 BDAL 15 L
- BA10 BDAL 14 L
- BA11 BDAL 13 L
- BA12 BDAL 12 L
- BA13 BDAL 11 L
- BA14 BDAL 10 L
- BA15 BDAL 9 L
- BA16 BDAL 8 L
- BA17 BDAL 7 L
- BA18 BDAL 6 L
- BA19 BDAL 5 L
- BA20 BDAL 4 L
- BA21 BDAL 3 L
- BA22 BDAL 2 L
- BA23 BDAL 1 L
- BA24 BDAL 0 L
- BA25 BDMR L
- BA26 BDMG1 L
- BA27 BDMG0 L
- BA28 BSACK L
- BA29 BWTBT L
- BA30 BSYNC L
- BA31 BDIN L
- BA32 BDOUT L
- BA33 BRPLY L
- BA34 BIRO L
- BA35 BIAKI L
- BA36 BIAKO L
- BA37 BREF L
- BA38 BBS7 L

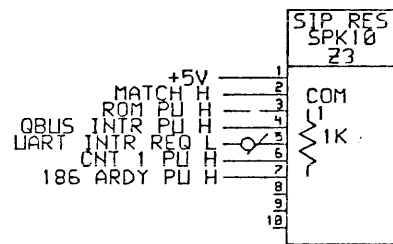
QBUS POWER PINS



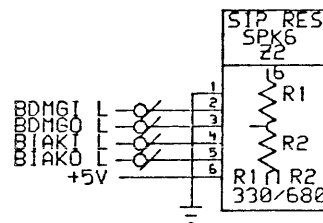
DRIVE CONNECTOR & TERMINATING RESISTORS



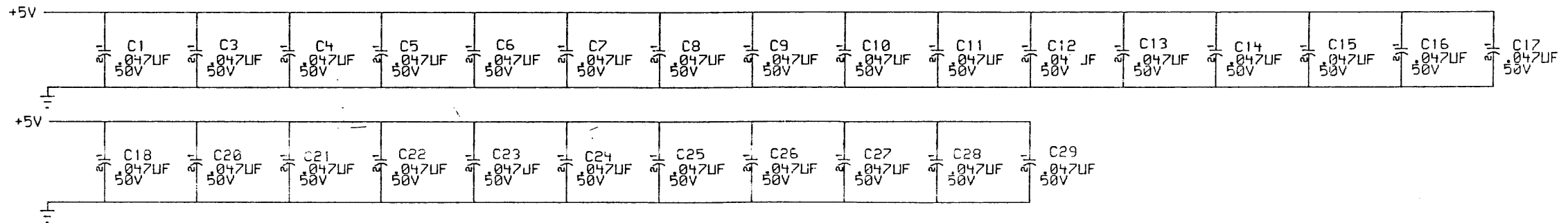
PULL UP RESISTORS



QBUS GRANT TERMINATING RESISTORS



CONTROLLER DECOUPLING CAPS



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 4. DIMENSIONS IN BRACKETS ARE FOR INFORMATION ONLY.  
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 6. DIMENSIONS IN BRACKETS ARE FOR INFORMATION ONLY.  
 7. DIMENSIONS IN BRACKETS ARE FOR INFORMATION ONLY.  
 8. DIMENSIONS IN BRACKETS ARE FOR INFORMATION ONLY.  
 9. DIMENSIONS IN BRACKETS ARE FOR INFORMATION ONLY.  
 10. DIMENSIONS IN BRACKETS ARE FOR INFORMATION ONLY.

REVISION	CHK	CHANGE NO.	REV.



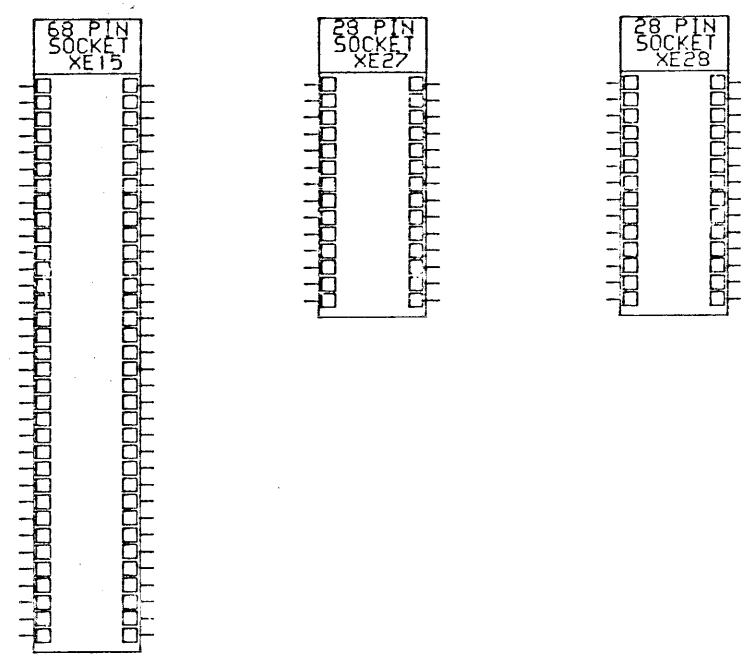
DESIGNED BY: M. KEARNAN DATE: 8/14/87  
 CHECKED BY: M. KEARNAN DATE: 8/14/87

TITLE: TQK70 CONTROLLER

SIZE: K CODE: CS NUMBER: M7559-0-1 REV: B

B M7559-0-1 CS K

### SOCKETS



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	CHK CHANGE NO. REV		BOARD LOCATION:	10 of 10	SHEET	SIZE CODE	
			B-DD-M7559-0		K CS	M7559-0-1	B

8 7 6 5 4 3 2 B 1-0-65524 CS K 1

D  
C  
B  
A

D  
C  
B  
A

8 7 6 5 4 3 2 1

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OPTION NAME :  
TK70-AA  
RM ECO

OPTION DESCRIPTION :  
ECO DESCRIPTION

OPTION NAME		REVISIONS									
TK70-AA		A1									
PART NO.	DESCRIPTION										
7021736-02	MOTOR BASEPLATE ASSY	A1									
7021141-01	EXTERNAL SHIELD ASSY	A1									
7023482-01	HEAD BRACKET ASSY	A1									
7023544-01	LEADER LATCH ASSY	A1									

- OPTION LEVEL REVISION  
ALPHA DIGIT USED TO INDICATE A FUNCTIONAL CHANGE  
NUMERIC DIGIT USED TO INDICATE A NON-FUNCTIONAL CHANGE
- PART NUMBER REVISION  
LISTED IN THE VERTICAL COLUMNS DIRECTLY BELOW THE OPTION LEVEL REVISIONS  
SHOW THE PART REVISIONS NEEDED TO MAKE UP THAT OPTION LEVEL REVISION.  
ALPHA DIGIT USED TO INDICATE A FUNCTIONAL CHANGE  
NUMERIC DIGIT USED TO INDICATE A NON-FUNCTIONAL CHANGE

MAG. MEDIA FILENAME: TK70-RM-DBUC

REVISIONS	CHANGE NO.	REV.	A	B	C	D	E
	CHK	INITIAL		TK70-SH001	TK70-SH003	TK70-SH004	TK70-SH005

USED ON OPTION/MODEL	DRN R. PUDELKO	DATE 5 MAR 87	TITLE TK70 REVISION MATRIX DOCUMENT
	CHK'D A. HIGGINS	DATE 12 AUG 87	digital
	RESP. ENG. K. CRANSON	DATE 12 AUG 87	
	MFG.ENG. F. BELLIVEAU	DATE 31 AUG 87	SIZE CODE BRM
	MAINTAINABILITY ENG. G. SMITH	DATE 18 AUG 87	NUMBER TK70-0-DBU
SHEET 1 OF 3	TOP DOC. B-00-TK70-0-DBU	DIST.	REV. E

SHIO



OPTION NAME: TK70-AA

INFORMATION SHEET

RM ECO

TK70-SH005

SET HARDWARE REVISION JUMPERS ON 54-17637-01 TO 4 SO THAT FIELD SERVICE CAN TRACK THE (ELECTRO-MECHANICAL) REVISION OF THE DRIVE.

BITS 0-4 ARE USED TO SET THE ELECTRO-MECHANICAL HARDWARE REVISION OF THE TK70.

				REV BITS				
				4	3	2	1	0
A	TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8
B	TP9	TP10	TP11	TP12	TP13	TP14	TP15	TP16
C	TP17	TP18	TP19	TP20	TP21	TP22	TP23	TP24

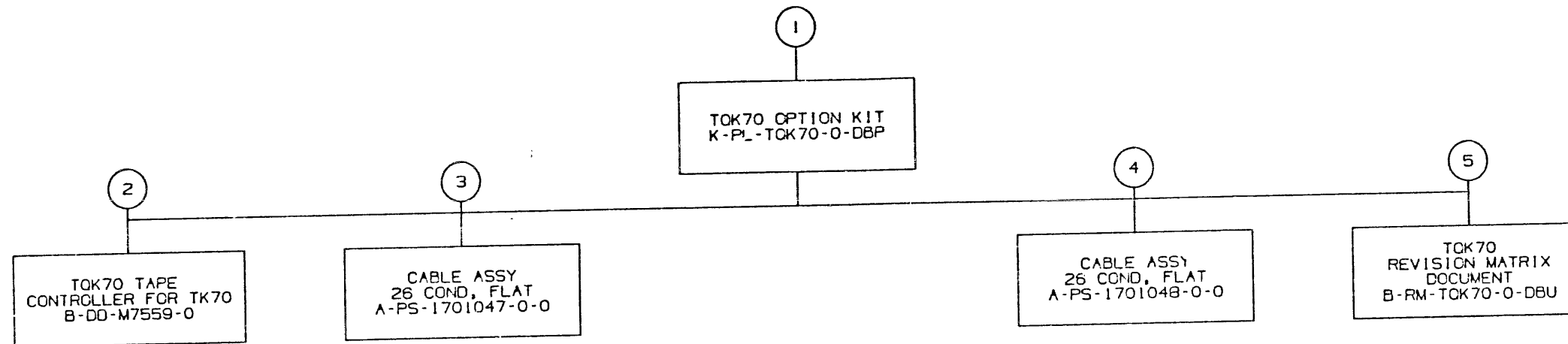
- IF PINS IN ROW A & B ARE CONNECTED BY A JUMPER THEN SWITCH IS OFF.
- IF PINS IN ROW B & C ARE CONNECTED BY A JUMPER THEN SWITCH IS ON.

TK70 DRIVE REV.	JUMPER REV.	JUMPER BIT SETTINGS				
		4	3	2	1	0
DRIVE REVISION D	REV 4	OFF	OFF	ON	OFF	OFF

SHO







TITLE:	TOK70 OPTION KIT	SHEET 2 OF 3	SIZE CODE <b>B DD</b>	NUMBER TOK70-0-DBU	REV. A
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OPTION NAME:  
TOK70-AA

OPTION DESCRIPTION:

RM ECO

ECO DESCRIPTION

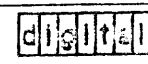
OPTION NAME		REVISIONS											
TOK70-AA		A1											
PART NO.	DESCRIPTION	A1	A2										
47932	TOK70 TAPE CONTROLLER												

#1 points to the first column of the REVISIONS table.  
#2 points to the first column of the PART NO. / DESCRIPTION table.  
#3 points to the first column of the PART NO. / DESCRIPTION table.

- OPTION LEVEL REVISION  
ALPHA DIGIT USED TO INDICATE A FUNCTIONAL CHANGE  
NUMERIC DIGIT USED TO INDICATE A NON-FUNCTIONAL CHANGE
- PART NUMBER REVISION  
LISTED IN THE VERTICAL COLUMNS DIRECTLY BELOW THE OPTION LEVEL REVISIONS  
SHOW THE PART REVISIONS NEEDED TO MAKE THAT OPTION LEVEL REVISION.  
ALPHA DIGIT USED TO INDICATE A FUNCTIONAL CHANGE  
NUMERIC DIGIT USED TO INDICATE A NON-FUNCTIONAL CHANGE
- THESE ENTRIES SHOW THE REVISION LEVELS OF THE PART THAT MAY BE USED AS SPARES.

MAG. MEDIA FILENAME: TOK70-RM-DBUA

REVISIONS	CHANGE NO.	REV.	INITIAL
	CHK		A

USED ON OPTION/MODEL	DRN	DATE	TITLE
	R. PUDELKO	18 AUG 87	 TOK70 REVISION MATRIX DOCUMENT
	CHK'D	DATE	
	M. KEARMAN	31 AUG 87	
	RESP. ENG.	DATE	
	M. KEARMAN	31 AUG 87	
	MFG. ENG.	DATE	
	G. KIAH	1 SEP 87	SIZE CODE
	MAINTAINABILITY ENG.	DATE	NUMBER
	G. SMITH	18 AUG 87	TOK70-0-DBU
	TOP DOC.		REV.
	B-DD-TOK70-0-DBU		A

SHEET 1 OF 2	DIST.						
--------------	-------	--	--	--	--	--	--

SHO

