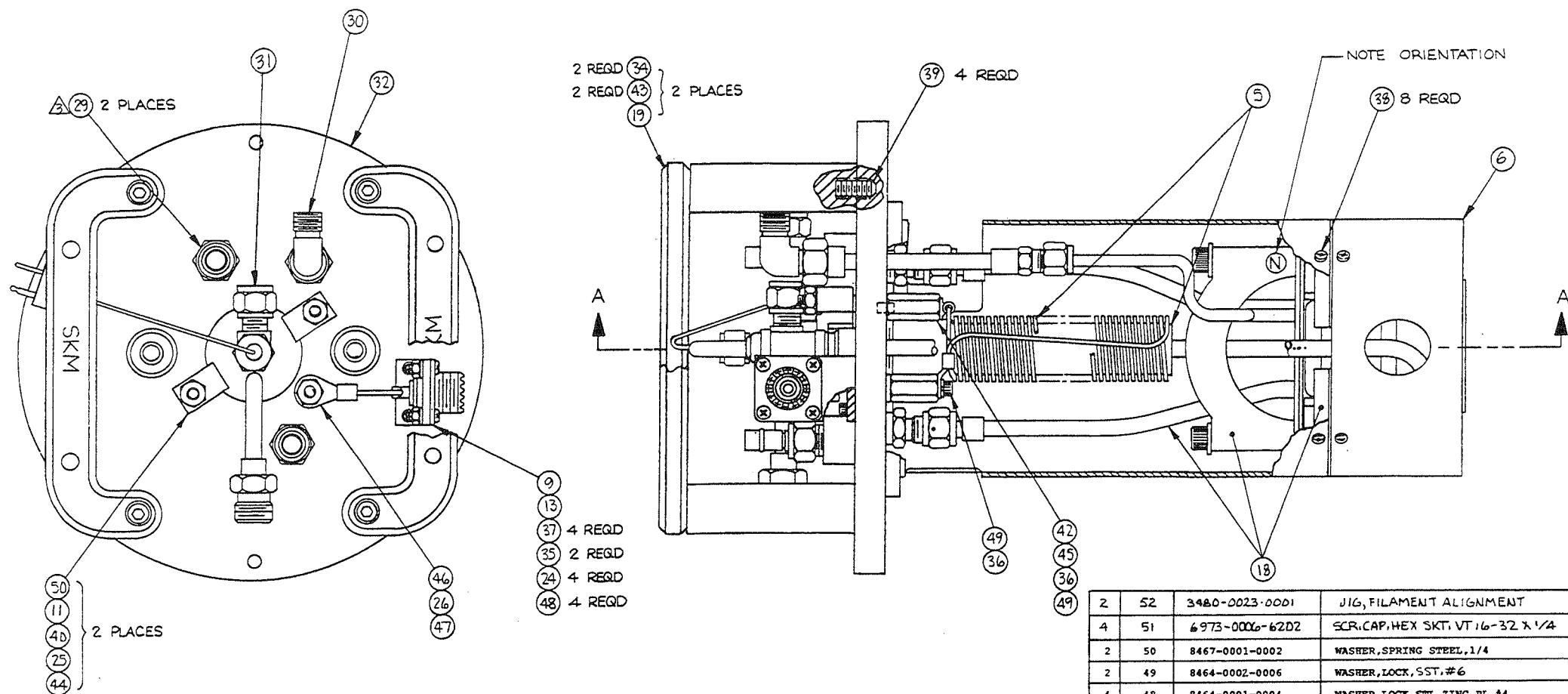




REV	DESCRIPTION	DATE	BY
-	RELEASED TO RECORDS	02/14/95	CA
A	(SHT 2) ADDED TABLE; ITEM CALLOUT 51 WAS: 36; ADDED HEADS TO SCREWS (ITEM 41) IN SECTION A-A; (SHT 1) ADDED "7184-0008-0002", "7184-0008-0003" TO MAT'L BLK ITEM 36 QTY WAS: 10; ITEM 8 WAS: 0342-0519-2001, CRUCIBLE ASSY; VAP SOURCE W/LDT; ITEM 21 WAS: 3111-0004-0001; ITEM 22 WAS: 3111-0005-0001; ITEM 23 WAS: 3113-0015-0001; ITEM 41 WAS: 6996-0003-7204, SCR, SET, HX SKT, SST, 8-32 X 1/4; ADDED ITEM 51; NOTE 1. WAS: "THE FOLLOWING... WITH 7184-0008-0001...". ECO #13716	02/14/95	CA
B	REMOVED ITEM 27 5053-0009-0252 QTY 4 FROM PARTS LIST + DWG. GRAPHICALLY CORRECTED FEEDTHRU OF ITEM 32 TO BE QUICK DISCONNECT. ECO 13914	02/14/95	DLC
C	ADDED NOTE #6; ITEM #52. ECO 13995	02/14/95	CA
D	CHANGED ITEM 7 WAS: 7196-0009-0001 "SPEC. MOLY DISULFIDE POWDER" ECO #15074	02/14/95	CA

QTY	ITEM NO.	PART NUMBER	DESCRIPTION	QTY	ITEM NO.	PART NUMBER	DESCRIPTION
2	52	3480-0023-0001	JIG, FILAMENT ALIGNMENT	2	25	5053-0001-0101	NUT, HEX, 10-32 UNF
4	51	6973-0006-6202	SCR, CAP, HEX SKT, VT 1/4-32 X 1/4	4	24	5053-0001-0042	NUT, HEX, 4-40 UNC
2	50	8467-0001-0002	WASHER, SPRING STEEL, 1/4	2	23	SEE TABLE (SHT 2)	INSULATOR, ELECTRODE, INNER, SKM
2	49	8464-0002-0006	WASHER, LOCK, SST, #6	2	22	SEE TABLE (SHT 2)	INSULATOR, ELECTRODE, OUTER, SKM
4	48	8464-0001-0004	WASHER, LOCK, STL, ZINC PL, #4	2	21	SEE TABLE (SHT 2)	INSULATOR, FILAMENT, SKM
1	47	8462-0008-0101	WHSR, FLAT, #10 STEEL ZINC PLATE	1	20	2791-0029-0001	HOUSING, SOURCE BODY WELDMENT, HOT FILAMENT
1	46	7395-0001-0039	TERMINAL, SLDLS, RNG, #10, 8 AWG	2	19	2710-0016-0001	HANDLE, VAPORIZER SOURCE, SKM
1	45	7230-0045-1001	STANDOFF, INDUCTION COIL, VS	1	18	1979-0006-0001	FILAMENT ASSY, SKM VAPORIZER SOURCE
2	44	7230-0036-0007	STANDOFF, RND, 1/40D, 10-32 X 1/2LG, SST	1	17	1979-0004-0001	FILAMENT, SKM VAPORIZER SOURCE
4	43	7188-0020-1001	SPACER, HANDLE MTG, VPR SOURCE	2	16	1550-0016-0001	ELECTRODE, FILAMENT, SKM
1	42	6996-0009-6203	SCR, SET, HEX, CUP PT, VT, 6-32X3/8	2	15	1066-0007-1001	COUPLING, CRUCIBLE, VPR SCE, CLSD
2	41	6970-0002-7202	SCR, CAP, HX SKT, BHD, SST, 2-32 X 1/4	1	14	1001-0016-0001	CONNECTOR, ELECTRODE, SKM
2	40	6996-0002-8120	SCR, SET, HEX SOC, 10-32, 1-1/4 LG	1	13	0996-0004-0002	CONN, UHF, PANEL RECEPTACLE
4	39	6996-0002-A208	SCR, SET, HEX SOC, 1/4-20, 1/2 LG	2	12	0981-0005-1001	COLLAR, FILAMENT, HOT FIL SOURCE
8	38	6989-0002-4204	SCR, PPH, SST, 4-40 X 1/4	2	11	0951-0008-1001	CLAMP, HEATER, OVEN SOURCE
4	37	6989-0001-4206	SCR, PPH, STL, ZINC PL, 4-40 X 3/8	2	10	0951-0003-1001	CLAMP, FILAMENT
6	36	6973-0002-6202	SCR, CAP, HEX SKT, SST, 6-32, 1/4	1	9	0636-0095-1001	BRACKET, CONN MTG, VPR SCE
2	35	6973-0002-4202	SCR, CAP, HEX SKT, SST, 4-40, 1/4	2	8	SEE TABLE (SHT 2)	CRUCIBLE ASSY
4	34	6973-0001-9204	SCR, CAP, HX SKT RD, 1/4-20 X 1/2	A/R	7	4310-0004-0001	LUBRICANT, POWDER, MOLY DISULFIDE
2	33	6692-0083-0001	RING, EXTERNAL RETAINING, 1/2SST	1	6	0342-0934-3001	SHIELD ASSY, CORONA, WELDMENT
1	32	5880-0667-0001	BASE PLATE W/LDT, HOT FILAMENT SCE	1	5	0342-0589-2001	COIL ASSY, CRUCIBLE SUPPORT,
2	31	5874-0002-0004	FTG, PLUG, 1/4 TUBE OD, SST, .GY	A/R	4	7050-0001-0002	SEALANT PRIMER, PIPE THREAD
1	30	5869-0010-0001	FITTING, ELBOW, 1/4 IN VCO, SST	A/R	3	7050-0001-0001	SEALANT, PIPE THREAD, ANAEROBIC
2	29	5867-0012-0008	FTG, DISC INSERT, 1/4 MNPT, THRU	2	2	0342-0568-2001	PLATE ASSY, OVEN, TC, VPR SCE
1	28	5400-0001-1218	O-RING, BUNA N, 1.25ID, 1.50D, 1/8	2	1	0342-0369-3001	FILAMENT BUSS ASSY
1	27						
1	26	5053-0006-0101	NUT, HEX, BRASS, 10-32 UNF				

6. 2 EA. (3480-0023-0001) REQUIRED FOR ARC BLOCK ALIGNMENT

3 WHEN ASSEMBLED WITH ALL TUBE FITTINGS TIGHT, GAP BETWEEN GAS FEED TUBE AND MOUNTING PLATE SHOULD BE .010-.050.

4 USE MOLYBDENUM DISULFIDE POWDER, ITEM 7.

3 USE ITEMS 3 & 4 ON PIPE THREADS AS REQUIRED.

2 VACUUM TEST SOURCE ASSEMBLY AND SPARE CRUCIBLE ASSEMBLY (SEE NOTE 1.) TO MAX LEAK RATE 1×10^{-8} cc/sec HELIUM.

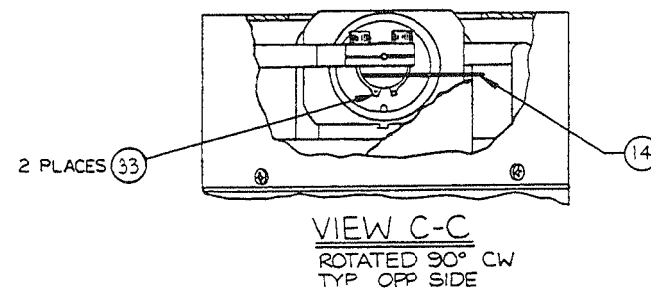
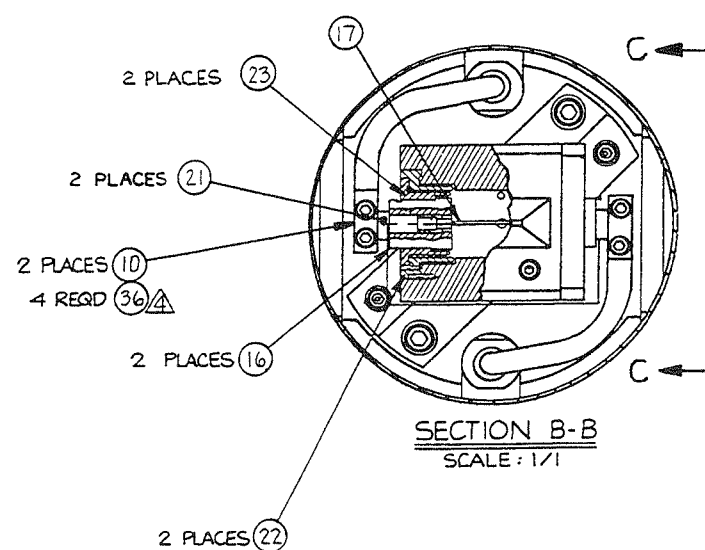
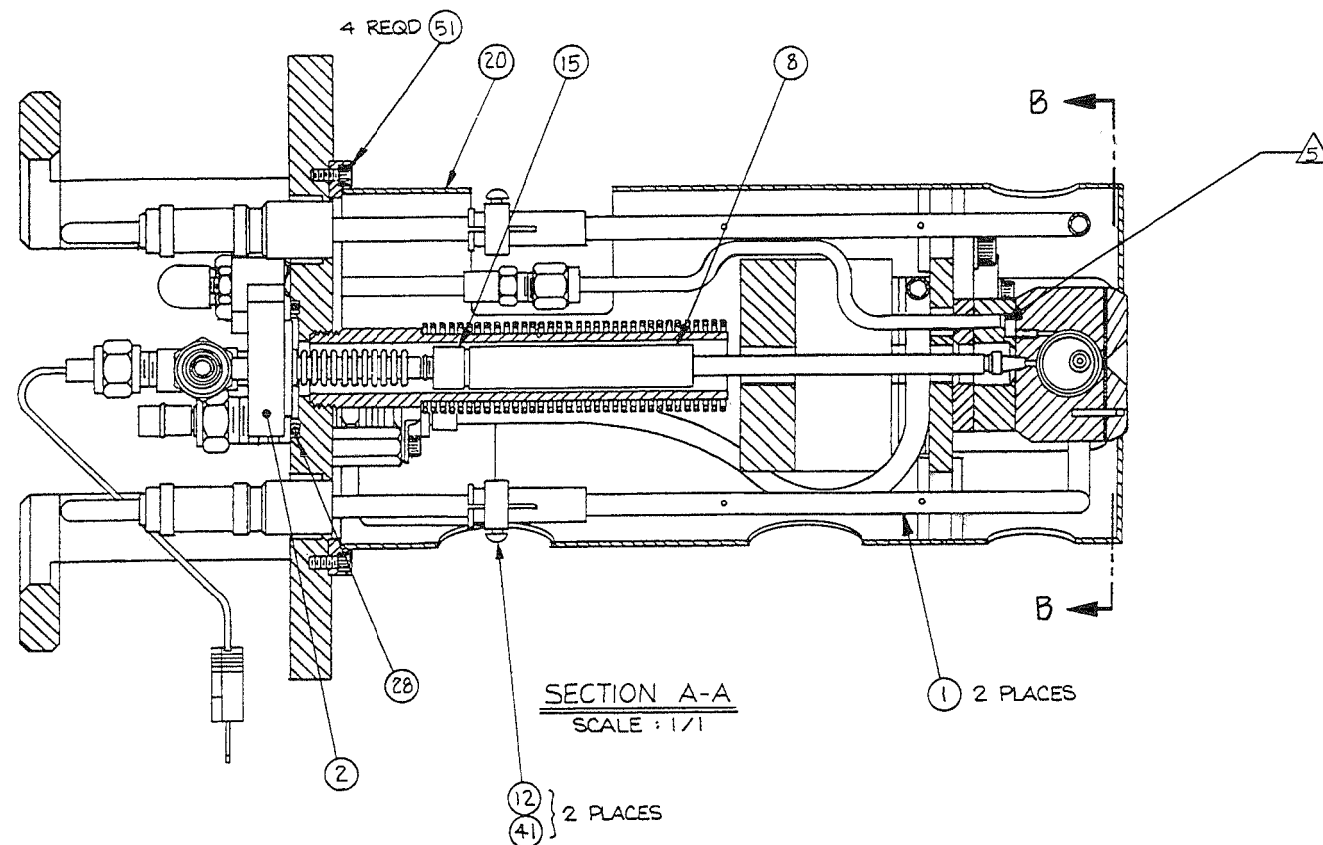
1. THE FOLLOWING ASSY SHALL BE PRE-ASSEMBLED & SHIPPED WITH 7184-0008-0001, 7184-0008-0002 OR 7184-0008-0003: ITEMS 2, 8, 15 & 31, QTY OF ONE (1) EACH.

NOTES

NOTICE OF PROPRIETARY RIGHTS
THIS DRAWING IS THE PROPERTY OF EYON. IT IS TO BE USED FOR THE PURPOSES SPECIFIED ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF EYON.

DRAWN CA DATE 02/01/95 CHECKED WOO DATE 02/01/95 APPROVED RCS DATE 02/01/95	DATE 02/01/95 EYON Sales & Marketing Equipment Austin, Texas 78728	TITLE SOURCE ASSY. SKM HOT FILAMENT	SCALE 1/1 SHEET 1 OF 2	SIZE D REV. NO. 7184-0008 REV. D
--	---	---	---------------------------	--

REV	DESCRIPTION	DATE	BY

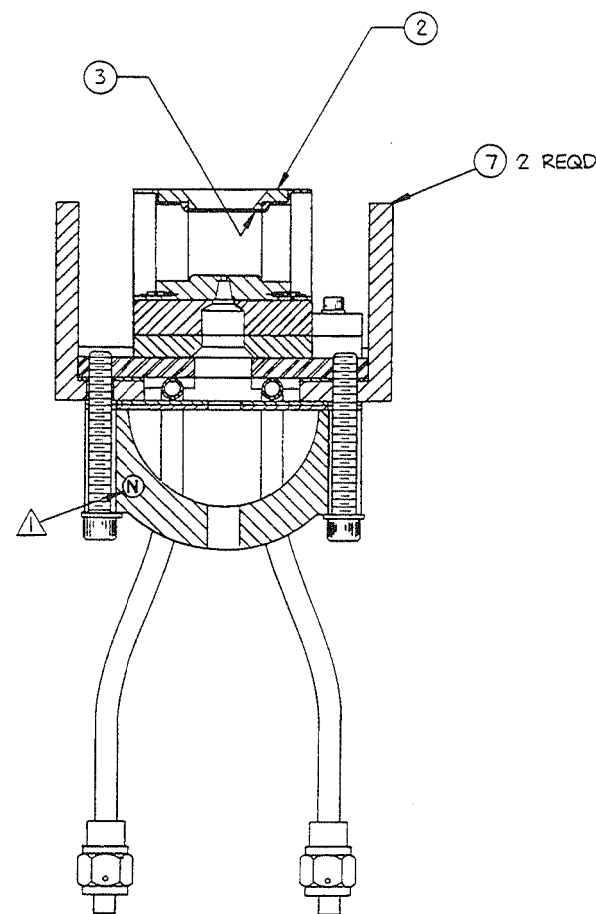
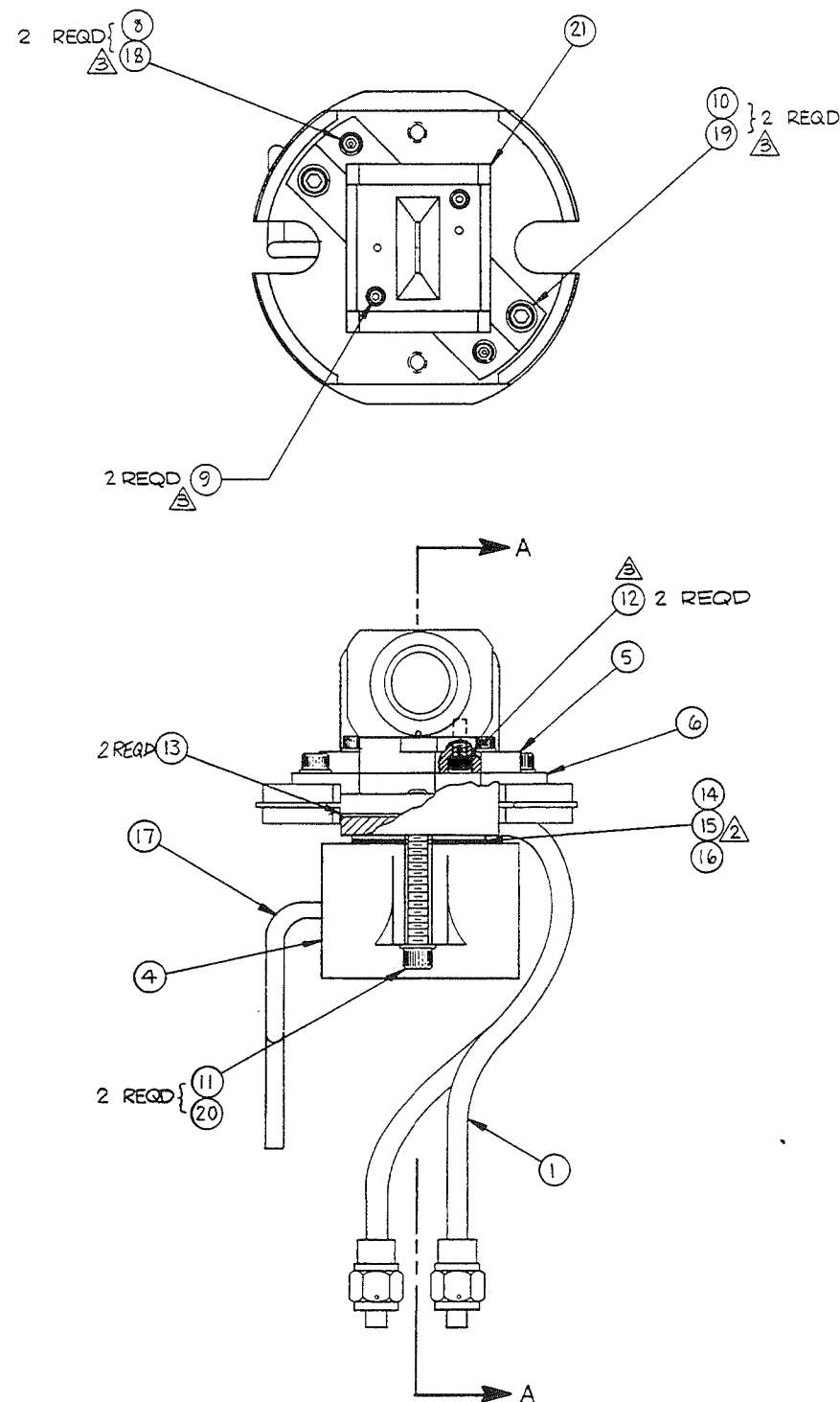


EATON DASH NO.	ITEM NUMBER			
	8	21	22	23
-0001 GENERAL USE SKM ION SCE ASSY	0342-0519-2001 CRUCIBLE ASSY VAP SCE, WLDT	3111-0004-0001 INSULATOR FILAMENT, SKM	3111-0005-0001 INSULATOR ELECTRODE, OUTER, SKM	3113-0015-0001 INSULATOR ELECTRODE, INNER, SKM
-0002 HIGH TEMP CRUCIBLE FOR ANTIMONY	0342-1363-0001 CRUCIBLE ASSY, HI-TEMP SCE, WLDT			
-0003 Al ₂ O ₃ ION SCE INSULATORS	SAME AS -0001	3113-0019-0001 INSULATOR, FILAMENT, SKM, AL OXIDE	3113-0017-0001 INSULATOR, ELECTRODE, OUTER, SKM, AL OXIDE	3113-0018-0001 INSULATOR, ELECTRODE, INNER, SKM, AL OXIDE

EATON Eaton Corporation Semiconductor Equipment 2635 Rutland Drive Austin, Texas 78758	
NOTICE OF PROPRIETARY RIGHTS THIS DOCUMENT AND THE INFORMATION IT CONTAINS IS PROPRIETARY TO EATON CORPORATION. IT MAY NOT BE REPRODUCED OR ITS CONTENTS USED IN ANY MANNER WITHOUT WRITTEN PERMISSION FROM EATON CORP.	
SHEET 2 OF 2 SCALE 1/1	
SIZE D	7184-0008 REV. D

NOTES:

REV	DESCRIPTION	DATE	BY
-	RELEASED TO RECORDS	02/27/79	WCS



SECTION A-A
SCALE: 1/1

- △ USE MOLYBDENUM DISULFIDE POWDER, ITEM 22.
- △ ADJUST MAGNET STRENGTH TO 88 GAUSS ± 2 GAUSS BY ADDING OR REMOVING SHUNTS, ITEMS 14, 15 AND 16.
- △ ORIENT MAGNET, ITEM 4, AS SHOWN.

NOTES

QTY	ITEM NO.	REF. DESG.	PART NO.	DESCRIPTION
A/R	22	7196-0009-0001		SPEC MOLYBDENUM DISULFIDE POWDER
1	21	0897-0033-0002		CHAMBER, ARC, SKM.
2	20	8462-0004-0810		WASHER, FLAT, 1/4 SST
2	19	8462-0004-0808		WASHER, FLAT, #10, SST
2	18	8462-0004-0805		WASHER, FLAT, #6, SST
1	17	7638-0022-0001		TUBING, 3/16" GAS FEED
2	16	7120-0007-0004		SHUNT, MAGNET, HOT FIL SCE, .0598 THK (16GA)
3	15	7120-0007-0002		SHUNT, MAGNET, HOT FIL SCE, .0239 THK (24GA)
1	14	7120-0007-0001		SHUNT, MAGNET, HOT FIL SCE, .0149 THK (28GA)
2	13	7058-0001-1001		SEAL, THERMAL
2	12	6973-0006-6204		SCR. CAP. HEX SKT, VT, SST, 6-32 x 1/2
2	11	6973-0002-9218		SCR. CAP. HEX SKT, V4-20, Z-V4
2	10	6973-0002-8103		SCR. CAP. HEX SKT, SST, 10-32 x 3/8
2	9	6973-0002-6210		SCR. CAP. HEX SKT, SST, 6-32 x 1.25
2	8	6973-0006-6203		SCR. CAP. HEX SKT, VT, SST, 6-32 x 3/8
2	7	5936-0001-2001		POLE PIECE, MAGNET, HOT FILAMENT SCE
1	6	5880-0690-0001		PLATE ASSY, ALIGNMENT, ARC CHAMBER
1	5	5880-0689-0001		PLATE, MTG, ARC CHAMBER
1	4	4630-0007-0001		MAGNET, CAST ALNICO, HT, 10N SCE
1	3	3100-0012-0001		INSERT, EMISSIVE ELECTRODE, ARC CHAMBER
1	2	1550-0011-0001		ELECTRODE, EMISSIVE, ARC CHAMBER
1	1	1033-0008-0001		COOLING COIL ASSY, HOT FIL SCE

NOTICE OF PROPRIETARY RIGHTS THIS DOCUMENT AND THE INFORMATION IT CONTAINS IS PROPRIETARY TO EATON CORPORATION. IT MUST NOT BE REPRODUCED OR ITS CONTENTS USED OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM EATON CORP.		DO NOT SCALE DRAWING! UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND FRACTIONS. DIMENSIONS APPLY AFTER FINISH. SURFACE FINISH: 100 BATT. DIM TOL: .015 ANGULAR TOL: $\pm 1^\circ$		UNIT NO. EATON Semiconductor Equipment	
DRAWN: C4-020789		DATE: 02/27/79		TITLE: FILAMENT ASSY, SKM HOT FILAMENT SCE	
CHECKED: 360		DATE: 02/27/79		REV.:	
APPROVED: 225		DATE: 02/27/79		D 1979-0006	
SCALE: 1/1		SIZE: DWD. NO.		SHEET 1 OF 1	
QTY	NEXT ASSY	USED ON			