



PAR VACUUM CHAMBER AND SPARES LOCATION BY ITEM NUMBER					
ITEM	FUNCTION	TAG	ASSY DWG NO.	SPARE TAG	SPARE ASSY DWG
1	SEPTUM	N/A	250104-880000		250104-880000
2	EXTRACTION, ION PUMP, ION GAGE	EXTR	25030101-100100	INJ. REGION SPARE	25030101-100200
3	TUNER & FLUORESCENT SCREEN	S-6	25030101-00014	SP-6	25030101-200000
4	VACUUM VALVE (SN 48144-XE74-1001)	N/A	VAT 84571	Spare valve or S-8	VAT 84571 or 25030101-00032
5	STRIPLINE, ION PUMP	S-1B	25030101-100020	SP-1	25030101-100064
6	DIPOLE	B-1	25030101-00018	B-2	25030101-00019
7	STRIPLINE	S-2	25030101-00011	S-2 or SP-2	25030101-00011 or -300000
8	ION PUMP	S-7	25030101-00012	S-7	25030101-00012
9	KICKER VACUUM CHAMBER	P2-1K2	250301-700000		250301-700000
10	FLUORESCENT SCREEN	S-9	25030101-100027	S-3	25030101-00016
11	STRIPLINE, ION GAGE	S-1A	25030101-000010	SP-1A	25030101-400000
12	DIPOLE	B-1	25030101-00018	B-2	25030101-00019
13	STRIPLINE	S-2	25030101-00011	S-2 or SP-2	25030101-00011 or -300000
14	FLUORESCENT SCREEN, ION PUMP	S-5	25030101-00013	SP-5	25030101-00030
15	STRIPLINE	S-2	25030101-00011	S-2 or SP-2	25030101-00011 or -300000
16	DIPOLE w/ LIGHTPORT	B2	25030101-00019	B-2	25030101-00019
17	STRIPLINE, ION GAGE	S-1A	25030101-000010	SP-1A	25030101-400000
18	CURRENT TRANSFORMER	S-T	125541-110000	SP-T	25030101-00029
19	ION PUMP	S-7A	25030101-00046 & -100146	S-7A	25030101-00046 & -100146
20	STRIPLINE	S-2	25030101-00011	S-2 or SP-2	25030101-00011 or -300000
21	DIPOLE	B-1	25030101-00018	B-2	25030101-00019
22	STRIPLINE, ION PUMP	S-1B	25030101-100020	SP-1	25030101-100064
23	BEAM TUBE (ONLY)	S-8	25030101-00032	S-8	25030101-00032
24	RF CAVITY (12TH HARMONIC)	N/A	25040102-150200		25040102-150200
25	RF CAVITY (CERAMIC BREAK)	N/A	25040101-570300		25040101-570300
26	RF CAVITY (FUNDAMENTAL)	N/A	25040101-420000		25040101-420000
27	RF (WELDED) BELLOWS	N/A	25040101-570201		25040101-570201
28	STRIPLINE, ION PUMP, ION GAGE	S-1	25030101-00009	SP-1	25030101-100064
29	DIPOLE w/ LIGHTPORT	B2	25030101-00019	B-2	25030101-00019
30	STRIPLINE	S-2	25030101-00011	S-2 or SP-2	25030101-00011 or -300000
31	FLUORESCENT SCREEN	S-9	25030101-100027	S-3	25030101-00016
32	ION PUMP	S-7	25030101-00012	S-7	25030101-00012
33	KICKER VACUUM CHAMBER	P4-EK	250301-700000		250301-700000
34	STRIPLINE, ION GAGE	S-1A	25030101-000010	SP-1A	25030101-400000
35	DIPOLE	B-1	25030101-00018	B-2	25030101-00019
36	STRIPLINE	S-2	25030101-00011	S-2 or SP-2	25030101-00011 or -300000
37	FLUORESCENT SCREEN, ION PUMP	S-5	25030101-00013	SP-5	25030101-00030
38	STRIPLINE	S-2	25030101-00011	S-2 or SP-2	25030101-00011 or -300000
39	DIPOLE	B-1	25030101-00018	B-2	25030101-00019
40	STRIPLINE, ION PUMP, ION GAGE	S-1	25030101-00009	SP-1	25030101-100064
41	BEAM TUBE (ONLY)	S-3	25030101-00016	S-3	25030101-00016
42	KICKER VACUUM CHAMBER	P1-1K1	250301-700000		250301-700000
43	TUNER	S-4	25030101-00017	S-4 or SP-4	25030101-00017 or -100001
44	STRIPLINE	S-2	25030101-00011	S-2 or SP-2	25030101-00011 or -300000
45	DIPOLE	B-1	25030101-00018	B-2	25030101-00019
46	STRIPLINE, ION PUMP	S-1B	25030101-100020	SP-1	25030101-100064
47	VACUUM VALVE (SN 48144-XE74-1002)	N/A	VAT 84571	Spare valve or S-8	VAT 84571 or 25030101-00032
48	H-SCRAPER, V-SCRAPER, FL.SCRN.	S-6A	25030101-00015	SP-6	25030101-200000
49	INJECTION, ION PUMP	INJ	25030101-00006	INJ. REGION SPARE	25030101-100200

REVISIONS				
ZONE	REV	DESCRIPTION	BY	APPROVED

OTHER CHAMBER LOCATIONS BY FUNCTION		
FUNCTION	TAG	ITEM
SEPTUM		1
INJECTION	NU	49
EXTRACTION	EXTR	2
DIPOLE (NO LIGHTPORT)	B-1	6, 12, 21, 35, 39, 45
VACUUM VALVE		4, 47
KICKER		9, 33, 42
RF CAVITY		24, 25, 26
RF (WELDED) BELLOWS		27
ION PUMP	S-1	28, 40
ION PUMP	S-1B	5, 22, 46
ION PUMP	S-5	14, 37
ION PUMP	S-7	8, 32
ION PUMP	S-7A	19
ION PUMP	NU	48
ION PUMP	EXTR	2
ION GAGE	S-1	28, 40
ION GAGE	S-1A	11, 17, 34
ION GAGE	EXTR	2
BEAMTUBE	S-3	41
BEAMTUBE	S-8	23

DIAGNOSTIC CHAMBER LOCATIONS BY FUNCTION		
DIAGNOSTIC	TAG	ITEM
STRIPLINE	S-1	28, 40
STRIPLINE	S-1A	11, 17, 34
STRIPLINE	S-1B	5, 22, 46
STRIPLINE	S-2	7, 13, 15, 20, 30, 36, 38, 44
TUNER	S-4	43
TUNER	S-6	3
FLUORESCENT SCREEN	S-6	3
FLUORESCENT SCREEN	S-6A	48
FLUORESCENT SCREEN	S-9	10, 31
FLUORESCENT SCREEN	S-5	14, 37
HORIZONTAL SCRAPER	S-6A	48
VERTICAL SCRAPER	S-6A	48
CURRENT TRANSFORMER	S-6A	18
DIPOLE (W/ LIGHTPORT)	B-2	16, 29

ITEM	DRAWING / PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. DECIMALS: ANGULAR: 4-90°. SURFACE FINISH: REMOVE ALL BURRS AND BREAK SHARP EDGES TO MAX. SURFACE FINISH TO BE IN ACCORDANCE WITH LEADER AND DIM. CHECK DIMS & TOLERANCES IN MATERIAL.				
DRAWN BY: R. KALT		DATE: 3/20/02	THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY ADVANCED PHOTON SOURCE	
CHECKED BY:		DATE:	TITLE: INJECTOR POSITRON ACCUMULATOR RING PAR VACUUM CHAMBER LOCATIONS	
DESIGNED BY: R. KALT		DATE: 3/20/02	SIZE: FROM No. 1	
RESPONSIBLE ENGINEER: R. DORTWEGT		DATE: 3/20/02	DRAWING NUMBER: 25030101-121000	
GROUP LEADER: S. SHARMA		DATE:	REV: 01	
APPROVED BY:		DATE:	SCALE: NTS	
APPROVED BY:		DATE:	DO NOT SCALE DRAWING	
APPROVED BY:		DATE:	SHEET: 1 of 1	

SYMBOL	CHANGE DESCRIPTION	BY	DATE
01	SEE DCN #	RTK	