SVT Electronics Carrier Assembly Labeling

Version Number: 1.0

Date: 24-Aug-99

Input: SVT cone cable labeling scheme - April 99

Definitions:
A.) Layers 1,3,5 are long ladders, Layers 2,4,6 are short ladders
B.) Difference between short and long ladders is a total of 1.2in.
C.) We are at the Westend looking east

Long ladders (from inside out, clockwise):
L02B1, L04B1, L06B1, L08B1
L02B2, L04B2, L06B2, L08B2, L10B2, L12B2
L02B3, L04B3, L06B3, L08B3, L10B3, L12B2, L14B3, L16B3

Short ladders (from inside out, clockwise):
L01B1, L03B1, L05B1, L07B1
L01B2, L03B2, L05B2, L07B2, L09B2, L11B2
L01B3, L03B3, L05B3, L07B3, L09B3, L11B3, L13B3, L15B3

Electronics Carrier definitions (Barrel 3):

Ladder A: wafers 1,2,3 - 4,5,6,7 (wafer labeling from E to W)
Ladder B: wafers 1,2,3,4 - 5,6,7 (wafer labeling from E to W)

Ladder A:
Electronics Carriers labeling:
7NA (left looking from West)
7SA (right...)
7NA consists of 73L and 74R flat cables (order from East)
7SA consists of 73R and 74L flat cables (")

Ladder B:
Electronics Carriers labeling:
7NB (left looking from West)
7SB (right...)
7NB consists of 74L and 73R flat cables (order from East)
7SB consists of 74R and 73L flat cables (")

Electronics Carrier definition (Barrel 2):
Only one ladder type
Electronics Carrier labeling:
6N (left looking from West)
6S (right ...)
6N consists of 63L AND 63R flat cables (order from East)
6S consists of 63R and 63L flat cables (order from East)

Electronics Carrier definition (Barrel 1):
Only one ladder type
Electronics Carrier labeling:
4N (left looking from West)
4S (right ...)
4N consists of 42L AND 42R flat cables (order from East)
4S consists of 42R and 42L flat cables (order from East)

Ladder Definitions for Barrel 1 (Layers 1 and 2):

Ladder	**Size**	**EC left**	**EC right**
L01B1	short	4N (42L,42R)	4S (42R,42L)
L02B1	long	4N (42L,42R)	4S (42R,42L)
L03B1	short	4N (42L,42R)	4S (42R,42L)
L04B1	long	4N (42L,42R)	4S (42R,42L)
L05B1	short	4N (42L,42R)	4S (42R,42L)
L06B1	long	4N (42L,42R)	4S (42R,42L)
L07B1	short	4N (42L,42R)	4S (42R,42L)
L08B1	long	4N (42L,42R)	4S (42R,42L)

Table 1.

Reference holes for Barrel 1 (from East Side of EC (upper left corner). Mark locations for South EC are same numbers but negative.

Ladder		**Mark 1**	**Mark 2**	**Mark 3**	**Mark 4**
L01, L03, L05, L07	**North EC**	3.345	10.092	10.770	17.517
		0.113	0.113	0.116	0.113
L02, L04, L06, L08	**North EC**	3.945	10.692	11.370	18.117
		0.113	0.113	0.116	0.113

Ladder Definitions for Barrel 2 (Layers 3 and 4):

Ladder	**Size**	**EC left**	**EC right**
L01B2	short	6N (63L,63R)	6S (63R,63L)
L02B2	long	6N (63L,63R)	6S (63R,63L)
L03B2	short	6N (63L,63R)	6S (63R,63L)
L04B2	long	6N (63L,63R)	6S (63R,63L)
L05B2	short	6N (63L,63R)	6S (63R,63L)
L06B2	long	6N (63L,63R)	6S (63R,63L)
L07B2	short	6N (63L,63R)	6S (63R,63L)
L08B2	long	6N (63L,63R)	6S (63R,63L)
L09B2	short	6N (63L,63R)	6S (63R,63L)
L10B2	long	6N (63L,63R)	6S (63R,63L)
L11B2	short	6N (63L,63R)	6S (63R,63L)
L12B2	long	6N (63L,63R)	6S (63R,63L)

Table 2.

Reference holes for Barrel 2 (from East Side of EC (upper left corner). Mark locations for South EC are same numbers but negative.

Ladder		**Mark 1**	**Mark 2**	**Mark 3**	**Mark 4**
L01, L03, L05, L07, L09, L11	**North EC**	3.345	10.092	10.770	17.517
		0.113	0.113	0.116	0.113
L02, L04, L06, L08, L10, L12	**North EC**	3.945	10.692	11.370	18.117
		0.113	0.113	0.116	0.113

Ladder Definitions for Barrel 3 (Layers 5 and 6):

Ladder	Size	Category	EC left	EC right
L01B3	short	ladder A	7NA (73L,74R)	7SA (73R,74L)
L02B3	long	ladder B	7NB (74L,73R)	7SB (74R,73L)
L03B3	short	ladder A	7NA (73L,74R)	7SA (73R,74L)
L04B3	long	ladder B	7NB (74L,73R)	7SB (74R,73L)
L05B3	short	ladder A	7NA (73L,74R)	7SA (73R,74L)
L06B3	long	ladder B	7NB (74L,73R)	7SB (74R,73L)
L07B3	short	ladder A	7NA (73L,74R)	7SA (73R,74L)
L08B3	long	ladder B	7NB (74L,73R)	7SB (74R,73L)
L09B3	short	ladder A	7NA (73L,74R)	7SA (73R,74L)
L10B3	long	ladder B	7NB (74L,73R)	7SB (74R,73L)
L11B3	short	ladder A	7NA (73L,74R)	7SA (73R,74L)
L12B3	long	ladder B	7NB (74L,73R)	7SB (74R,73L)
L13B3	short	ladder A	7NA (73L,74R)	7SA (73R,74L)
L14B3	long	ladder B	7NB (74L,73R)	7SB (74R,73L)
L15B3	short	ladder A	7NA (73L,74R)	7SA (73R,74L)
L16B3	long	ladder B	7NB (74L,73R)	7SB (74R,73L)

Table 3.

Reference holes for Barrel 3 (from East Side of EC (upper left corner).

Ladder		Mark 1	Mark 2	Mark 3	Mark 4
L01, L03, L05, L07, L09, L11, L13, L15	**North EC**	2.103 0.113	8.852 0.113	9.523 0.111	18.756 0.113
	South EC	-2.103 0.113	-8.850 0.116	-9.526 0.113	- 18.757 0.113
L02, L04, L06, L08, L10, L12, L14, L16	**North EC**	2.703 0.113	11.934 0.113	12.610 0.116	19.357 0.113
	South EC	-2.704 0.113	-11.937 0.111	-12.608 0.113	-19.537 0.113