SVT Detector Assembly Scheme

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This document is largely based on an assembly procedure which was first presented by CJ in 1996. It takes into account the endring designs as well as the limitations of the rotation tools on the CMM.

We will assemble the North Half shell first, before we assembly the South Half shell.

We will assemble barrel 2 first, then barrel 3, then barrel 1.

Barrels 2 and 3 are supported by a single end ring (the outer end ring). Barrel 1 is supported by the inner end ring.

We will assemble in the following layer order: 4,3,5,6,2,1

That results in the following chronological ladder assembly order:

Ladder	**Half Shell**	**Ladder specification**
L07B2	Layer 4 (North)	short - 6 wafers
L09B2		short - 6 wafers
L11B2		short - 6 wafers
L08B2	Layer 3 (North)	long - 6 wafers
L10B2		long - 6 wafers
L12B2		long - 6 wafers
L10B3	Layer 5 (North)	long - 7 wafers
L12B3		long - 7 wafers
L14B3		long - 7 wafers
L16B3		long - 7 wafers
L09B3	Layer 6 (North)	short - 7 wafers
L11B3		short - 7 wafers
L13B3		short - 7 wafers
L15B3		short - 7 wafers
L05B1	Layer 2 (North)	short - 4 wafers
L07B1		short - 4 wafers
L06B1	Layer 1 (North)	long - 4 wafers
L08B1		long - 4 wafers
L05B2	Layer 4 (South)	short - 6 wafers
L03B2		short - 6 wafers
L01B2		short - 6 wafers
L06B2	Layer 3 (South)	long - 6 wafers
L04B2		long - 6 wafers
L02B2		long - 6 wafers
L08B3	Layer 5 (South)	long - 7 wafers
L06B3		long - 7 wafers
L04B3		long - 7 wafers
L02B3		long - 7 wafers
L07B3	Layer 6 (South)	short - 7 wafers
L05B3		short - 7 wafers
L03B3		short - 7 wafers
L01B3		short - 7 wafers
L03B1	Layer 2 (South)	short - 4 wafers
L01B1		short - 4 wafers
L04B1	Layer 1 (South)	long - 4 wafers
L02B1		long - 4 wafers

Table 1.