

A brief description of the start hodoscope for the FFS is given:

The array consists of 3 modules of identical design. The scintillator is Bicron 418 and is 4.5 cm wide by 5.5 cm long. On each end a piece of UVT is attached with optical cement. The UVT is 4.5 cm by 4.5 cm. The UVT is cemented to the PMT glass with optical cement. Each counter is wrapped with two layers of aluminum foil and one layer of black vinyl tape. The light pipe near the tube face is wrapped with Teflon tape instead of Al foil. The UVT and scintillator are 6 mm thick.

The slats are positioned in front of D1. The counters are staggered with counters 1 and 3 being 23.5 cm in front of D1 and counter 2 is 31 cm in front of D1. There is a 5mm overlap between the counters. Counter 2 is mounted on a sliding plate, which is indexed. The counter can be placed either in its nominal position or for relative timing calibrations can be placed directly in front of either counter 1 or 3.

The signal cables are stock 16ns RG58. This is the same length cable used on the big tubes for the BB array. The counters are connected to the BB electronics using 6 of the right BB array smaller tubes electronics and cables. These tubes have replaced modules 25 to 30 of the right BB array.

The tubes are connected to the LRS4032 used for the big tubes of the BB arrays, BB3.

The tubes are old tubes from the E802 tof wall. Forty tubes were crudely tested for dark noise and gain. The “best” six were selected for the array.