Bulletin #: TB950801 New Streamline Tubing **Date: 8/16/95** **Page 1 of 1**

Applies To:

Replacement streamline legs for AT style gliders

Service Requirement:

None required

Background:

AT Style control bar legs are now in production using a new Wills Wing extrusion. The shape was developed with the help of a computer program for the application of potential flow and boundary layer theories to the design of airfoil sections. Subsequent testing confirmed a reduction of the section drag coefficient compared to the Finsterwalder tubing.

The new extrusion without any innersleeve is stronger than the Finsterwalder with a sleeve—*so new legs do not have innersleeves.* Because the new legs are so strong, we do not use them on AT62 or AT60 sizes to reduce the chance of injury to smaller pilots.

- All AT65, AT68 legs will be made with the new extrusion
- All AT60, AT62 legs will be made with Finsterwalder

The dimensions of the Wills Wing shape are approximately the same as the Finsterwalder, but the new tubing can be easily distinguished by the location of the boundary layer trip ridges on the outer surface of the tube. Both types are interchangeable with respect to dimensions and fittings.

- Finsterwalder: Ridges right behind the leading edge
- Wills Wing: Ridges are about 1/3 of the way back from the leading edge to the trailing edge.

The prices of the new legs are the same. Part numbers are shown below.

Retail	ID	Description	Specification
63.00	40G-1335	LEG AT65 STREAMLINE WW EXTR	REPLACES 40G-1330, 1331. USES NO SLEEVE
67.50	40G-1336	LEG AT65 VG STREAMLND WW EXT	REPLACES 40G-1332. USES NO SLEEVE
63.00	40G-1337	LEG AT65 STRM SUPINE WW EXTR	REPLACES 40G-1333. USES NO SLEEVE
67.50	40G-1338	LEG AT65 VG STRM SUPN WW EXTR	REPLACES 40G-1334. USES NO SLEEVE
63.00	40G-1345	LEG AT68 STREAMLINE WW EXTR	REPLACES 40G-1340, USES NO SLEEVE
67.50	40G-1346	LEG AT65 VG STREAMLND WW EXT	REPLACES 40G-1341. USES NO SLEEVE