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Wire Pulls Instruction

Piper used drag wire pulls in all of the metal spar, rag-wing models. The "single-end" wire pull is part # DCI0171 and the double end wire pull is part # DCI0161. They are located at the end of each drag strut assembly and furnish a point on which to connect the drag wire clevises or, as in the PA-18, the fuel tank brace tube.

Drag wire pulls are made from 0.063" stainless steel, are 7/8" wide and are bent to various angles depending on the model in which they were installed. The angle varied from the shallow 29° up to a 45° angle. The reason for the angle change was due to the spacing of the drag struts. The J3, PA-11, and PA-18 are all alike in that the drag strut spacing was the same. The PA-12 and PA-14 have an extra drag bay and thus the spacing changed, which dictated the wire pulls be bent at a higher angle.

It is possible to use a wire pull bent for a different model by simply bending the angle to the one desired. This is best accomplished on the wing after the drag strut assembly has been installed. By doing it this way, the drag strut acts as a fixture to hold the wire pull while it is being bent. This prevents the wire pull from bending in the clevis-connecting hole area instead of the original bend area, and allows the bend being made to align to the opposite wire pull station. It is advisable when bending these parts to be careful and bend only enough for the correct alignment. Bending back and forth past the correct alignment might damage the wire pull. We recommend fabricating a bending device that holds the tab along its entire length. This will keep the tab from developing an arc along its length, or having the bend develop in the clevis-connecting hole.



DCI0161 Double-End Wire Pull



DCI0171 Single-End Wire Pull