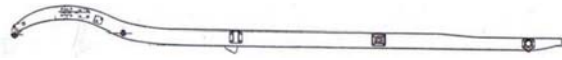


# ***From the Frame Up, LLC***



## **Tech Tips:**

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### **GL010: Triplex Glass and Windshield Installation**

**Glass:** The original glass for the TC was manufactured by TRIPLEX. It had a distinctive logo which was date coded specific to the manufacturing date of the glass. The logo branded the term “TOUGHENED” signifying tempered glass as its trademark through the entire TC production. However, the export models starting in late '47 had the word “toughened” changed to “PLATE” signifying plated or laminated glass. This was due to changing safety standards through-out the export community. For a detailed account of TRIPLEX glass and the method of coding, see the enclosed article on TRIPLEX Glass.

**Windshield Frame:** Installing the windshield frame can be another one of those frustrating and time-consuming tasks. The secret to installing a new windshield lies with the correct assortment of hardware. The original screws in the windshield were nickel plated brass machine screws size 2BA. There were three lengths of screws, which I term, short, medium and long. There is some variation in the hardware of the frames and data itself requires varying combinations of lengths of screws for installation. One replacement set of screws that I tried only had the short and the long and short screws. Without the medium screws there was not enough adjustment at the corners and the long screws were too long, which had the potential to damage the glass. Recommend: FTFU Fastener Set #496, Windshield Frame Screw Set to solve this problem.

The following information is provided as a suggested method of installing a new windshield.

1. Installing the windshield will be a two-step process. First, you will assemble the frame in its entirety as a mockup. Then you will partially disassemble it to put the glass in. Initially, lay the parts out on your worktable in the position that they will be put together and as viewed as if you were sitting in the car. Install the tapped backing plate inside each of the side channels with one short screw in the center position.
2. Install the Auster name plate on the bottom channel using self tapping rivets. Simply start the rivet in the hole and tap lightly with a hammer to set the rivet and hold the plate
3. Install each bottom corner bracket. Using 4 short screws on each. Do not tighten the screws. Leave them loose so the frame can be adjusted.
4. Install each of the top corner brackets using 4 medium length screws on each. Do not tighten the screws leave them loose. Use the chrome plated screws where the heads will be exposed or seen.

5. Now, working one corner at a time tighten the screws equally to form an even mitered corner. After all four corners are done to your satisfaction, inspect the screw lengths on the inside of the channel. There should not be any excess screw length protruding from the corner brackets as this may damage the glass. Based on your installation, change screws as necessary to get the correct length.
6. Install each side support using three long oval headed screws in the top three holes. Install one medium screw in the bottom hole of each.
7. Now lay the glass on top of the frame to visualize the clearance available around the perimeters. If there is an area where the glass is going to be tight, realize that the glass can be sanded down using a medium grit sandpaper to give you more clearance. Although the top and bottom channel appear fairly rigid, realize that they will flex somewhat and conform to the shape of the glass upon installation. Once you're satisfied with the prospective fit of the glass, remove the side support and side channel on each and leave the corner brackets attached to the channels at both the top and the bottom.
8. For TD windshields, install the wiper motor spacer inside the top channel. The TC did not have the spacer so be mindful that you do not want over torque the bolts when you install the wiper motor.
9. Thread the wire down the inside of the channel for the wiper motor. Now install the glass inside the top channel simultaneously with the rubber stripping.
10. Install the glass with rubber stripping in the bottom channel.
11. Miter the rubber stripping on each end with a razor blade at the same angle as the end of the channel.
12. Install each side channel with a rubber stripping to complete the frame. Miter the rubber at corners. Be mindful of the wire for the wiper motor so you do not damage it. Keep the screws loose for adjustment.
13. Now, working one corner at a time tighten the screws equally to form an even mitered corner at each corner.
14. Install the side supports.
15. Slide the rubber frame to cowl strip into the slot on the bottom channel and trim square at each end.

Installing The Windshield On The Car: The easiest way to install the windshield is to have 1 cowl bracket installed on the car and then have the second bracket attached to the windshield frame itself before finalizing the install. Slide it into position and then secure. You will have to do adjustments and shimming as necessary to get the windshield to function properly to the up and down position. Be prepared to adjust and shim. Don't be in a hurry.

Safety Fast!

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