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GEMINI XII EVA RESTRAINT PROVISIONS

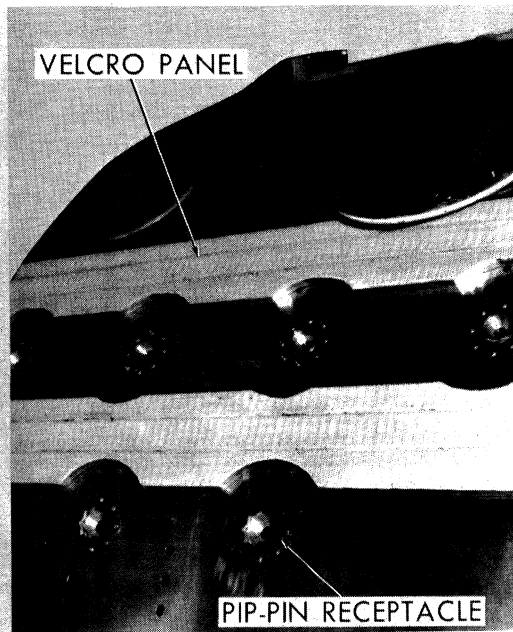


FIGURE 9

This is a wrench, an Apollo-type wrench, which was evaluated at various torque levels on this bolt.

We had two different types of fluid and electrical connectors, and the task was to connect and disconnect these while in various body positions and with different restraint systems.

You see over here the waist tethers, as they are connected onto the parachute harness. We had a provision to shorten the tethers. The tether hook would be engaged into this pit pin, which was placed into the side of the Agena.

We found in some of our early training that these pins had a tendency to turn or rotate, so we developed a star fitting which would enable me to place this in different attitudes. And, once it was in this position it would not twist or rotate.

At this point I might like to mention how the environmental life support system, or chest pack, was connected to the parachute harness. These two velcro straps were attached at these points. The oxygen was supplied into the suit through a Y connector fitting. The reason for the Y connector fitting was for emergency ingress, where we were unable to repressurize the cabin, we could hook up the spacecraft oxygen hoses to these connections here and disconnect the hoses at this point and dispose of the chest pack.

We found that we could not stow the chest pack in a hard suit condition in the event we were unable to repressurize the spacecraft.

These two oxygen hoses, the inlet and outlet, were connected to the suit at these points. The upper restraint was connected up here, and the lower restraint system was connected down at this point. The