

PIVOT	Technical Standards Document	DOCUMENT ID	PM-UL2K-GRY
	Department: Technical Services	REVISION A	DATE 03/11/2019
Title: PIVOT Technology Overview			
Key Words / Acronyms: Company (Military Pilot Supply of Texas Inc., dba Fly Boys) Electronic Flight Bag (EFB) European Aviation Safety Agency (EASA) Federal Aviation Agency (FAA) Technical Standards Document (TSD) Utility Light (UL)			
SUMMARY: This TSD provides an abbreviated but comprehensive technical overview of PIVOT technology and its use in both commercial and military aviation aircrafts operating under FAA, EASA or other authority's regulatory guidance derived from the aforementioned.			
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REVISIONS RECORD

<i>Rev.</i>	<i>Action</i>	<i>Date</i>	<i>Prepared</i>	<i>Checked</i>	<i>Approved</i>
A	BASELINE APPROVAL	03-18-2019	Ken Crowhurst	Matt Swee	Matt Swee

Background

Increased use of tablets in cockpits requires maximizing available space and insuring device security. Map light attachment fixtures (UL sockets) exist at each crew position in the aircraft. These utility sockets work in a similar way to standard spring-loaded socket wrench mechanisms. In some cases, the UL socket is a spring-loaded ball capable of ingress/egress with mild force. Alternatively, it features a built-in thumbscrew to lock or release an inserted plug from the socket.



Standard UL-socket installed on aircrafts.

With only an occasional need for map lights, PIVOT created parts which leverage the functionality of the sockets more effectively. With no modification, they can be used as attachment points for tablet device mounts in addition to or as an alternative to kneeboards.

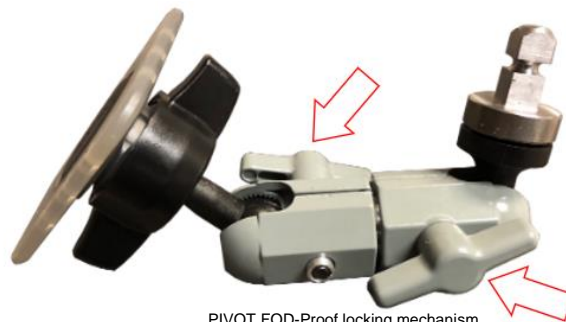
The PIVOT UL-Mount™

PIVOT designed a multi-joint arm with the PIVOT attachment plate for use as a tablet mount in UL sockets. The attachment plate is fully compatible with all current and future PIVOT tablet cases. The mount is installed/removed without the use of tools and is classified by both the FAA (AC120-76D) and EASA (AMC 20-25) as a “portable part”.



PIVOT UL-Mount in UL socket on a T-6.

A groove milled into the anodized 6061-T6 aluminum UL post at the end of the mount holds it in the socket. Each mount knuckle has a special collar which prevents the part from being disassembled. This removes the potential for cockpit FOD. The assembly is classified as portable and can be pilot carried. Typically, it is left in-place for successive crew use.



PIVOT FOD-Proof locking mechanism

The UL-Mount with or without an attached tablet is not intended to be extended during high-G maneuvers. It is designed to have no impediment to visibility or emergency egress. All users must refer to and follow life support and aircraft procedures regarding emergency ground egress and ejection. In any egress situation with time permitting, the aircrew should remove and stow both the device and the mount.

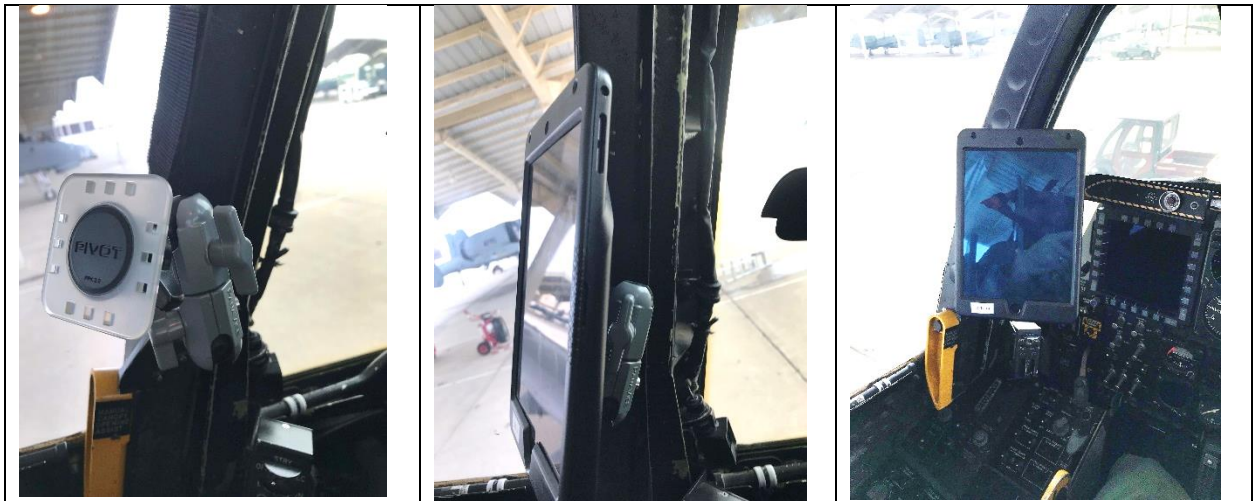
T-6



T-38



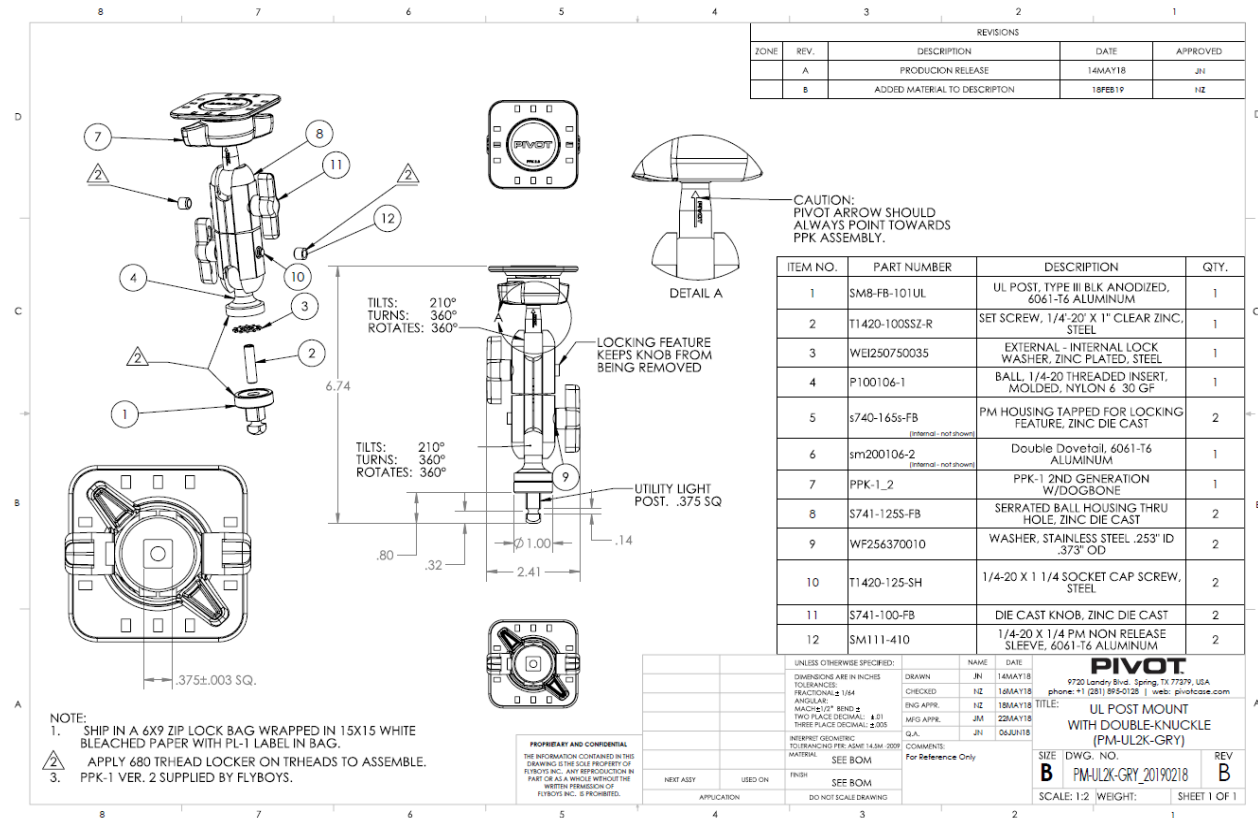
A-10



Deployment

For each deployment, a visual assessment and fit test of the mount into the socket is recommended. Over time, the base of the mount may become stretched from the original specification. If the fit is loose, maintenance should be consulted for evaluation and potential socket replacement.

The following technical drawing shows the the PIVOT UL-Mount and the amount of rotation and tilt adjustment provided by the assembly. A materials list is also provided.



Additional Information

To learn more, please visit pivotcase.com for instructional videos, product support and additional information. You'll find valuable online resources to enhance your user experience and see the complete line of PIVOT products.

If you have questions, please contact PIVOT Support.



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