



## **INSTALLATION NOTES MODEL 241 041 UNIVERSAL 3-AXIS MOUNT**

THANK YOU FOR BUYING THIS MOUNT FROM US. WE TRY TO TAKE GREAT CARE WITH, AND ARE PROUD OF, THE FIT, FINISH, AND BUILD QUALITY OF OUR PRODUCTS. IF YOU FIND THAT THE THE QUALITY OF ANYTHING YOU SEE IN THIS KIT IS NOT SATISFACTORY, WE WOULD LIKE TO KNOW ABOUT IT.

THIS MOUNT IS INTENDED TO HOLD A SMALL, LIGHT PIECE OF (TYPICALLY) ELECTRONIC EQUIPMENT IN A CONVENIENT PLACE AND ORIENTATION FOR THE USER. ONE END BOLTS TO YOUR VEHICLE; THE OTHER END ACCEPTS THE CRADLE THAT CAME WITH YOUR EQUIPMENT. IN BETWEEN IS AN ASSEMBLY THAT ALLOWS ADJUSTMENT IN 3 AXES, MEANING IT WILL GO EVERY WHICH WAY.

THESE NOTES ARE INTENDED TO ACCOMPANY THE EXPLODED PARTS DIAGRAM. PLEASE READ THEM THOROUGHLY AND REVIEW THE DIAGRAM BEFORE BEGINNING TO ASSEMBLE YOUR MOUNT.

WE SUGGEST THE FOLLOWING ASSEMBLY SEQUENCE:

1. BEFORE YOU BEGIN, PLEASE MAKE SURE YOUR KIT IS COMPLETE: THERE SHOULD BE 6 ALUMINUM PIECES, SOME NUTS, BOLTS AND WASHERS AND 3 ALLEN KEYS.
2. PLEASE NOTE THAT THE ADJUSTMENT PROVISION OF THIS MOUNT IS BY TAPERED PIN IN TAPERED HOLE. TAPERS PROVIDE AN EXTREMELY RELIABLE VIBRATION-RESISTANT JOINT AND THEY DON'T NEED TO BE VERY TIGHT TO DO IT. IN FACT, IF YOU TIGHTEN THE BOLT TOO FAR, YOU MAY NEVER GET THEM APART TO ADJUST THEM. ACTUALLY, THIS IS WHY WE SUPPLY ONLY SHORT ALLEN KEYS.
3. BOLT THE AMPS PLATE (PART #5) TO THE PLATE MOUNT (PART #4) WITH THE TWO 10-32 COUNTERSUNK SCREWS (PART #8). YOU'LL NEED THE 1/8" (MEDIUM) ALLEN KEY TO TIGHTEN THE BOLTS. THE REASON WE RECOMMEND STARTING HERE IS BECAUSE THE PLATE MOUNT (PART #4) AND THE PANEL ADAPTOR (PART #1) ARE THE SAME EXCEPT FOR THE THREADED HOLES. THIS WAY, WE MAKE SURE YOU FIND OUT WHICH PART IS WHICH.
4. BOLT THE CRADLE THAT HOLDS YOUR PIECE OF EQUIPMENT TO THE UNIVERSAL AMPS PLATE (PART #5). THERE ARE TWO PERPENDICULAR SETS OF HOLES ON THE AMPS STANDARD RECTANGULAR GRID: CHOOSE THE ORIENTATION THAT SUITS YOUR APPLICATION BEST. THE AMPS PATTERN IS THE ESTABLISHED STANDARD IN THE ELECTRONICS INDUSTRY. GARMIN, FOR EXAMPLE, USE IT. WE SUPPLY 6-32 X 3/8" SOCKET HEAD CAP SCREWS AND WASHERS (PARTS # 11 & 12) FOR THIS WHICH WILL USUALLY WORK. USE THE 7/64" (SMALL) ALLEN KEY.
5. ASSEMBLE THE TWO ELBOW RECEIVERS (PART #2) ON THE ENDS OF THE ELBOW AXLE (PART #3) WITH THE 1/4" WASHERS (PART #6) AND BUTTON HEAD SCREWS (PART #7) IN APPROXIMATELY THE ORIENTATION YOU THINK YOU'LL NEED. YOU'LL NEED THE 5/32" (LARGE) ALLEN KEY TO

(LIGHTLY) TIGHTEN THE BOLTS. NOTE THAT SINCE THESE PARTS CAN EACH SWIVEL 360°, YOU HAVE A LOT OF CHOICES IN HOW YOU ORIENT THEM.

6. LOAD THE ENDS OF THE ASSEMBLY YOU JUST MADE INTO THE CORRESPONDING TAPERED HOLES OF THE PANEL ADAPTOR (PART #1) AND PLATE MOUNT (PART #4) AND RETAIN WITH THE 1/4" WASHERS (PART #6) AND BUTTON HEAD SCREWS (PART #7).
7. OFFER UP THE WHOLE ASSEMBLY AND DECIDE WHERE YOU WANT TO MOUNT IT. IF IT'S NOT HOW YOU WANT IT, PLEASE REMEMBER THAT THE ELBOW PARTS CAN BE RE-ORIENTATED TO BIAS THE MOUNT IN DIFFERENT DIRECTIONS.
8. YOU'LL NEED TO DRILL TWO 13/64" HOLES CENTERS BEFORE BOLTING ON THE PANEL ADAPTOR (PART #1). HOLES CANNOT BE UNDRILLED SO PLEASE MAKE SURE YOU GET THIS STEP RIGHT BEFORE CUTTING METAL. ALSO, AND THIS IS VERY IMPORTANT, HAVE A LOOK BEHIND THE PANEL BEFORE DRILLING TO MAKE SURE YOU HAVE ROOM TO FIT THE NUTS AND DON'T ACCIDENTALLY DRILL HOLES IN SOMETHING UNSEEN BUT VITAL. AS ALWAYS, COMMON SENSE IS YOUR BEST GUIDE.
9. YOU CAN USE THE PANEL ADAPTOR (PART #1) AS A DRILL GUIDE OR YOU CAN MARK OUT THE HOLES: THEY'RE ON 1.500" (38.1MM) CENTERS.
10. ASSUMING YOU GOT THE HOLES WHERE YOU WANTED THEM, BOLT THE MOUNT TO YOUR PANEL WITH THE TWO 10-32 X 7/8" BOLTS, WASHERS AND NYLOCK NUTS (PARTS # 9,10,13 & 14). YOU'LL NEED THE 5/32" (LARGE) ALLEN KEY AND A 3/8" WRENCH.
11. IN SOME SPECIAL CIRCUMSTANCES (FOR EXAMPLE CYGNET YOKE ARMS ON BEEHCRAFT AIRPLANES), THREADED 10-32 HOLES ON 1.500" CENTERS ARE ALREADY THERE – SIMPLY BOLT ON THE PANEL ADAPTOR (PART #1) WITH THE 10-32 SOCKET HEAD CAP SCREWS AND WASHERS (PARTS # 9 & 10).
12. ADJUST THE MOUNT HOW YOU WANT IT AND TIGHTEN ALL SCREWS. PLEASE REMEMBER THE COMMENTS ABOVE ABOUT NOT OVER-TIGHTENING THE TAPERED JOINTS.

NO SET OF INSTRUCTIONS CAN SUBSTITUTE FOR COMMON SENSE. IT IS THE SOLE RESPONSIBILITY OF THE OWNER/OPERATOR OF THE AIRCRAFT TO PLACE THIS MOUNT AND SECURE THE UNIT SO THAT IT WILL NOT INTERFERE WITH THE AIRCRAFT'S OPERATING CONTROLS AND SAFETY DEVICES, OR CAUSE DAMAGE OR PERSONAL INJURY IN THE EVENT OF AN ACCIDENT OR TURBULENCE. DO NOT MOUNT YOUR DEVICE WHERE THE PILOT OR PASSENGERS ARE LIKELY TO IMPACT IT IN AN ACCIDENT, COLLISION, OR TURBULENCE. THIS MOUNTING HARDWARE IS NOT WARRANTED AGAINST TURBULENCE, COLLISION DAMAGE, OR RELATED CONSEQUENCES. AFTER INSTALLING YOUR MOUNT, MAKE SURE THAT THE AIRCRAFT FLIGHT CONTROLS ARE FREE AND CLEAR AND THAT THE DEVICE, THE MOUNT AND WIRING DO NOT CAUSE ANY INTERFERENCE WITH THE FLIGHT CONTROLS.

PLEASE WRITE TO US AT [FAX@ANGEROLE.COM](mailto:FAX@ANGEROLE.COM) WITH ANY QUESTIONS YOU MAY HAVE. GOOD LUCK AND ENJOY!