



Mounting Brackets



INSTALLATION MANUAL

**INSTALLATION BY
EMC CERTIFIED
TECHNICIAN
ONLY!**

AEVIT 2.0 Mounting Brackets Installation Manual

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1.1 OVERVIEW

EMC provides many different options for mounting the AEVIT 2.0 devices. These devices include the AEVIT 2.0 Primary Input Devices, the AEVIT 2.0 Display, and secondary switch options. This manual will show the recommended mounting options for all of these devices. Also provided in this manual are a few variations of the recommended mounting options that may better suit your client.

This installation manual is broken down into two (2) major sections. The first section focuses on the Primary Input Mounting Brackets. This section will show how to install brackets for mounting Steering and Gas/Brake input devices. The second section will focus on Secondary Input Mounting Brackets. This section deals with the mounting of the AEVIT 2.0 Display and secondary activation switches.



1.2 INSTALLING THE MOUNTING BALL ONTO INPUT DEVICES

All EMC mounting options provide versatility with the use of ball-and-socket mounting brackets. Mounting Balls will need to be attached to the input devices and the corresponding mounting brackets will have the mating sockets. Therefore, the first step in installing any of the input devices is to install the mounting ball to the bottom of them.

Each Input Device Install Kit should have a Mounting Ball and a Mounting Ball hardware kit that contains the following:

- (4) 10-32 x 1/2" Safety Torx Screws
- (1) Safety Torx Bit
- (4) #10 Internal Tooth Lock Washers
- (1) Container of Blue Loctite®

Install the Mounting Ball onto the input device using (3) 10-32 x 1/2" safety torx screws, (3) internal tooth lock washers and the Blue Loctite® as shown in **Figure 1**. In order to install the (3) safety torx screws you will need to use the supplied safety torx bit. There are (7) pre-drilled holes on the mounting ball. **Figure 2** shows which holes should be used to mount the ball onto the input device.

NOTE:

ALL AEVIT 2.0 PRIMARY INPUT DEVICES AND THE AEVIT 2.0 DISPLAY ARE DESIGNED TO HAVE THE SAME MOUNTING BALL SCREW PATTERN. THEREFORE, THIS INSTALLATION STEP SHOULD BE PERFORMED FOR ALL INPUT DEVICES (LEVER, WHEEL, JOYSTICK...) AND THE AEVIT 2.0 DISPLAY.

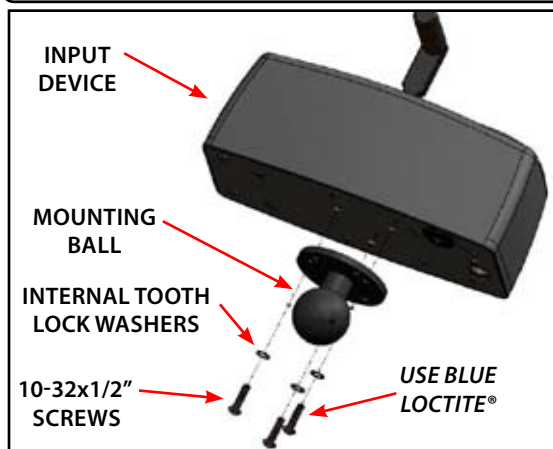


FIGURE 1

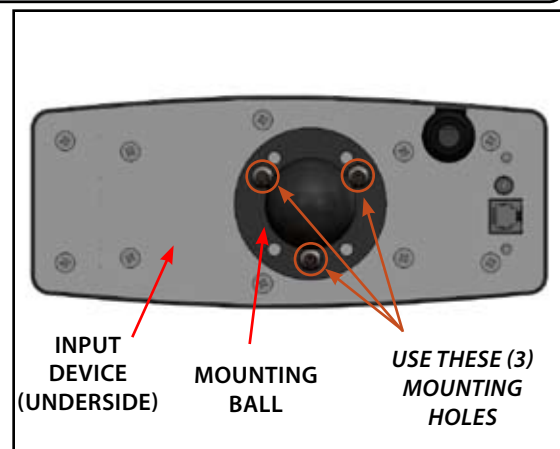


FIGURE 2

WARNING:

BE SURE TO PROPERLY TIGHTEN THE SCREWS TO THE PROPER TORQUE SETTING OF 2.0 FT-LBS AND USE BLUE LOCTITE®.

2.1 GENERAL INFORMATION

The primary input section will describe how to install the mounting brackets for the Primary Inputs which include: Digital Lever, Wheel, and single and dual axis Joysticks. As the name states, these devices perform the tasks of operating the primary functions of the vehicle: Steering and Gas/Braking. Generally, the Gas/Brake controls are installed on the left hand side of the driver and utilize the **door mounting bracket system** and the steering controls are installed on the right hand side of the driver and utilize the **floor mounting bracket system**. However, only the base plate of each mounting system is different (See figure to the right for mounting system components). Sections 2.2 and 2.3 will go into detail about installing the bases of the Floor and Door mounting systems and section 2.4 will discuss the generic adjustment section installation. Finally, section 2.5 will discuss other mounting options.

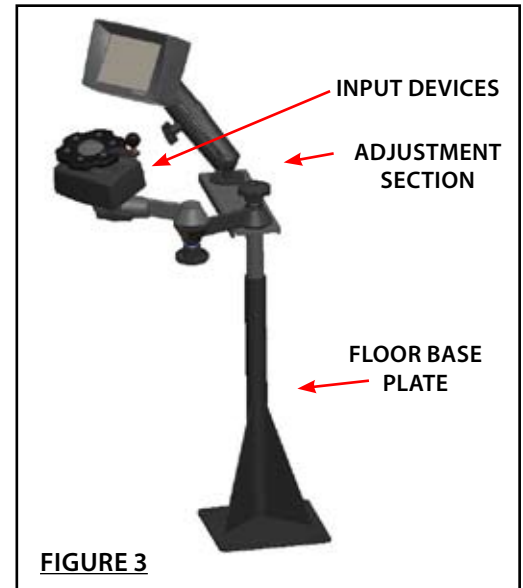


FIGURE 3

WARNING:

THESE INSTRUCTIONS SHOULD BE READ THOROUGHLY BEFORE ATTEMPTING TO INSTALL THIS EQUIPMENT. FAILURE TO DO SO COULD CAUSE THESE MOUNTING BRACKETS TO BE INSTALLED INCORRECTLY LEADING TO AN ACCIDENT RESULTING IN SERIOUS INJURY AND/OR DEATH.

CAUTION: WHAT NOT TO DO

- INSTALL THE EMC MOUNTING BRACKETS IF ALL COMPONENTS ARE NOT PROVIDED IN THE KITS.
- DEVIATE FROM ANY STEPS SHOWN IN THESE INSTRUCTIONS UNLESS APPROPRIATE. (I.E. "OTHER MOUNTING OPTIONS" SECTION).
- INSTALL THIS EQUIPMENT IF YOU ARE UNSURE ABOUT ANY STEP IN THESE INSTRUCTIONS.

2.2 MOUNTING BASE INSTALLATION - FLOOR (BRKT-AEVIT-FLR)

Before installing the Floor Mounting system, verify that the following components are included with the BRKT-AEVIT-FLR mounting kit:

- | | |
|---|------------------------------|
| (1) Floor Base Plate | (4) 3/8" x 2" Hex Head Bolts |
| (1) Input Device Articulating Swivel Brkt | (8) 3/8" Flat Washers |
| (1) Input Device Mounting Ball | (4) 3/8" Lock Nuts |
| (1) Mounting Ball Hardware Kit | |

NOTE:

IF ANY OF THESE COMPONENTS ARE NOT INCLUDED WITH THE BRKT-AEVIT-FLR, CALL THE EMC SERVICE DEPARTMENT. **DO NOT ATTEMPT TO INSTALL WITHOUT ALL PARTS.**

2.2 MOUNTING BASE INSTALLATION - FLOOR (BRKT-AEVIT-FLR) (CONTINUED)

STEP 1

Determine the location for the Floor Base Plate. This will change depending on the needs of the client. EMC recommends that it be mounted between the two front seats with the webbing facing towards the passenger seat and the AEVIT 2.0 Chassis be mounted partially on top of it as shown in the figures below (See your vehicle specific AEVIT 2.0 Installation Manual for information on mounting the AEVIT 2.0 Chassis). The Floor Base Plate and the AEVIT 2.0 Chassis should also be mounted as far forward in the vehicle as possible. This will reduce the overall footprint of the system and allow the client to move their wheelchair in and out of the driver's area more effectively. It is also very important to make sure that the Floor Base Plate does not extend to the left into the driver's area as this will interfere with the client's wheelchair movements.

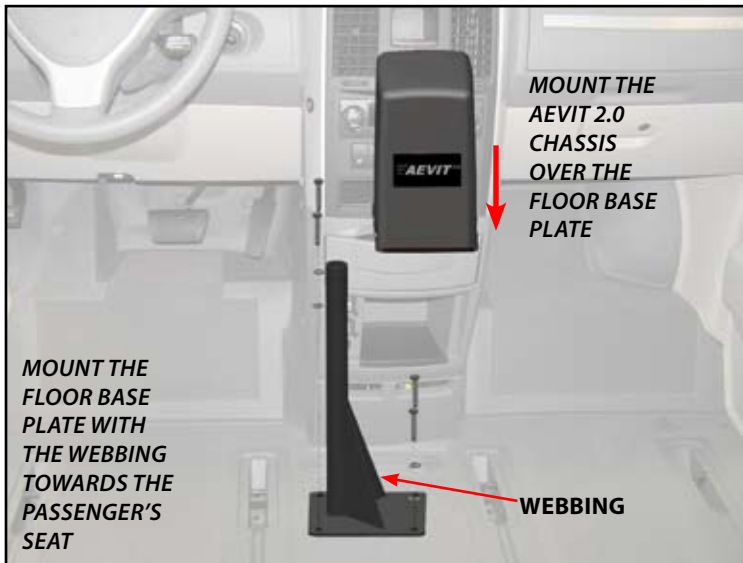


FIGURE 4A

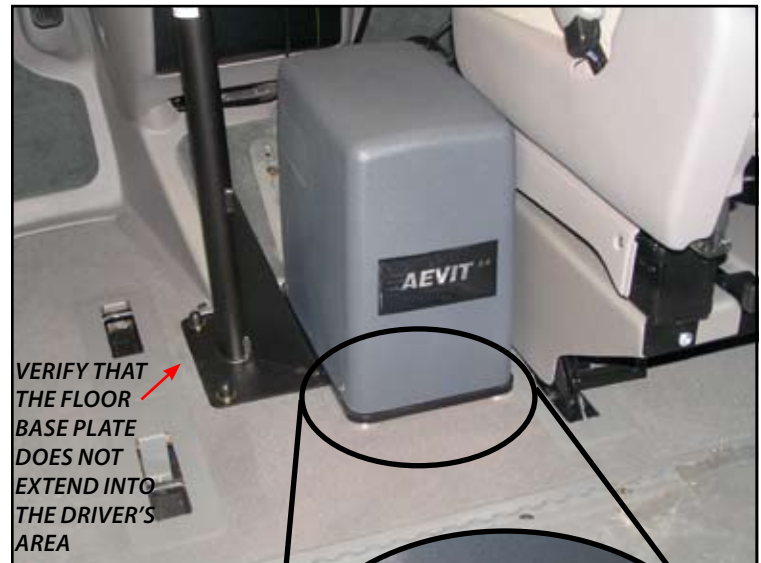


FIGURE 4B

STEP 2

Once the location of the mounting bracket is selected, drill (4) 3/8" holes through the floor.

WARNING:

BEFORE DRILLING IN THE OEM VEHICLE, CHECK ALL AREAS ABOVE AND BELOW TO AVOID DRILLING THROUGH WIRE HARNESES OR OTHER EQUIPMENT.

STEP 3

Mount the Floor Base Plate to the floor of the vehicle using (4) 3/8" x 2" hex head bolts, (8) 3/8" flat washers, and (4) Lock nuts. Once the Base Plate is mounted, skip to section 2.4 for the adjustment and input device installation information.

NOTE:

WHEN MOUNTING THE AEVIT 2.0 CHASSIS IN THIS CONFIGURATION, YOU WILL NEED TO PROVIDE FOUR (4) SPACERS WHICH ARE AT LEAST 1/2" THICK TO RAISE THE CHASSIS OVER THE FLOOR BASE PLATE AND ITS MOUNTING BOLTS. THESE SPACERS ARE SHOWN IN FIGURE 4B.

2.3 MOUNTING BASE INSTALLATION - DOOR (BRKT-AEVIT-DOOR)

Before installing the Door Mounting system, verify that the following components are included with the BRKT-AEVIT-DOOR mounting kit:

- | | |
|---|-------------------------------|
| (1) Door Base Plate | (4) 5/16" x 3" Hex Head Bolts |
| (1) Input Device Articulating Arm Bracket | (6) 1/4" x 1" Hex Head Bolts |
| (1) Upper Pole Mounting Plate | (4) 5/16" Lock Washers |
| (1) Input Device Mounting Ball | (6) 1/4" KEP Nuts |
| (1) Mounting Ball Hardware Kit | (4) Base Plate Spacers |
| (5) Bolt Caps | (1) Additional Spacer* |

NOTE:

IF ANY OF THESE COMPONENTS ARE NOT INCLUDED WITH THE BRKT-AEVIT-DOOR, CALL THE EMC SERVICE DEPARTMENT. **DO NOT ATTEMPT TO INSTALL WITHOUT ALL PARTS.**

Once all components are verified as present, the Door Base Plate can be attached directly to the door as shown in **Figure 5** below. This universal plate will be mounted to the OEM driver's door with no less than (5) bolts and locknuts for the vehicles shown. The four bosses protruding out from the door plate will go through the door panel to accept the Quick Adjust Upper Pole. **Figure 6** shows the Door Base Plate and references possible mounting holes for individual vehicle manufacturers.

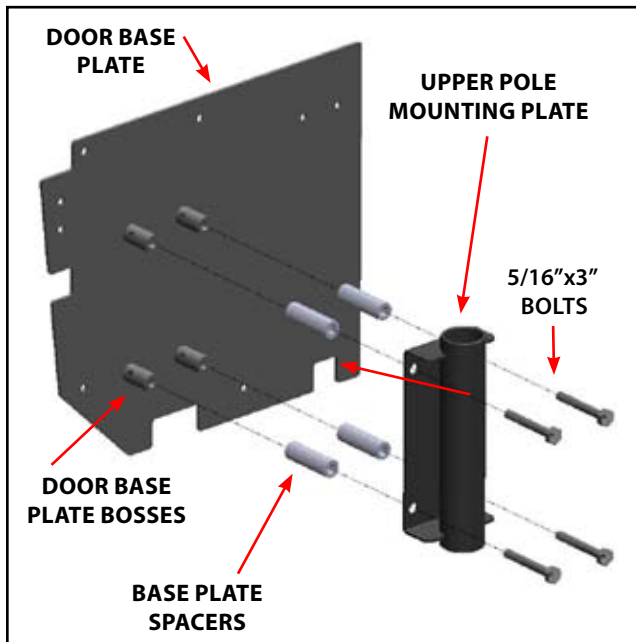
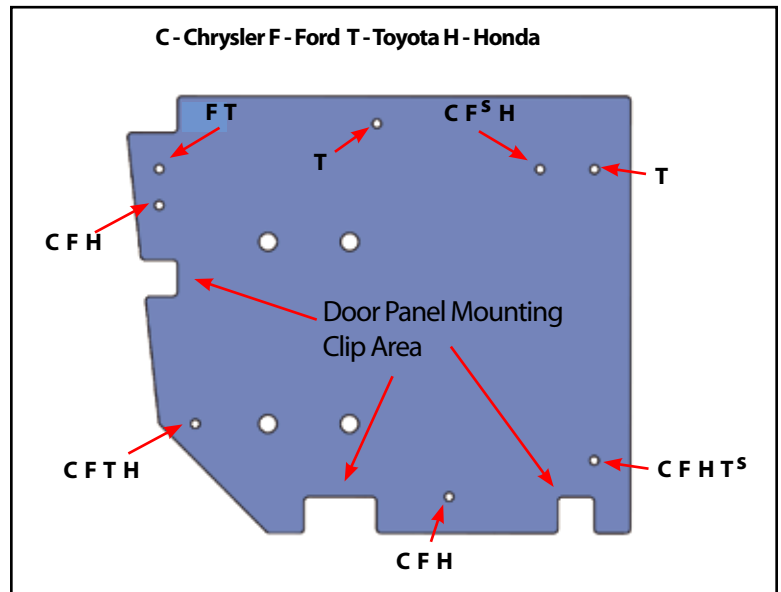


FIGURE 5



(Holes marked with F^S & T^S will require the additional spacer* behind the plate.)

FIGURE 6



This rendering shows how the door mounting system will eventually go together. The Door Base Plate is hidden behind the panel with the (4) protrusions and/or spacers coming through the OEM door panel.

NOTE:

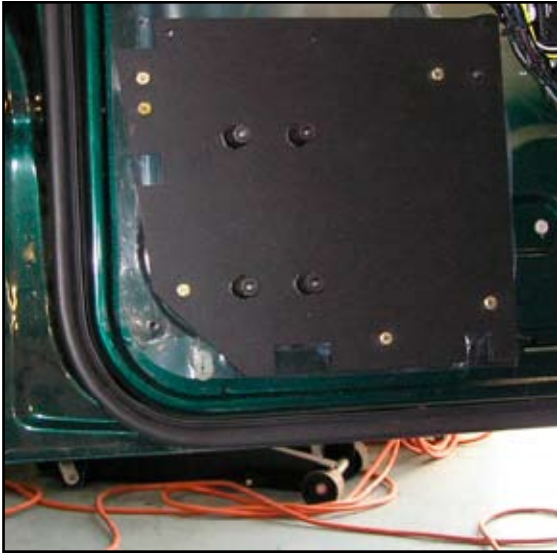
THE DOOR BASE PLATE IS DESIGNED TO AVOID OEM DOOR PANEL MOUNTING CLIPS FOR ALL VEHICLES. THESE VOID AREAS MUST BE CONSIDERED WHEN PLACING THE PLATE FOR HOLE DRILLING.

WARNING:

ALL MOUNTING HARDWARE AND FASTENERS MUST BE PROPERLY TIGHTENED TO PREVENT UNINTENDED MOVEMENT OF THE INPUT DEVICE(S) AND MOUNTING BRACKETS. FAILURE TO OBSERVE THIS WARNING MAY RESULT IN AN ACCIDENT CAUSING SERIOUS INJURY AND/OR DEATH.

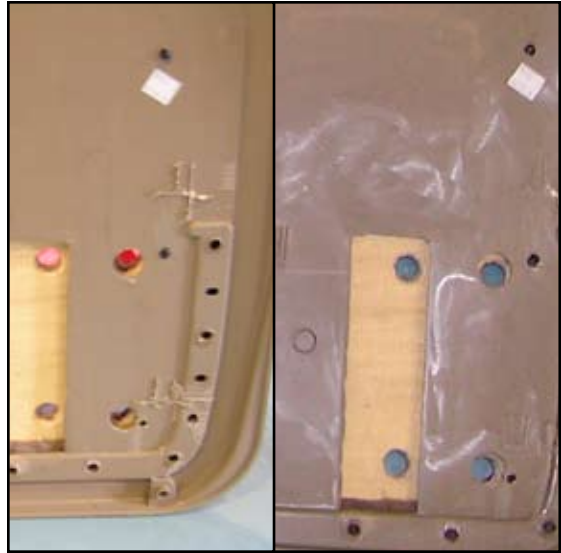
2.3 MOUNTING BASE INSTALLATION - DOOR (BRKT-AEVIT-DOOR)
 (CONTINUED)

STEP 1



Remove the driver's door panel and mark the area where the Door Base Plate will be mounted. See hole diagram on previous page. Mount the door plate with no less than (5) 1/4-20 x 1" bolts and locknuts. After the plate is mounted, mark and drill (4) 5/8" holes for the standoffs.

STEP 2



Once the holes are drilled, cut away any plastic areas that will interfere with the door plate being mounted parallel with the door. Be sure that the areas that were cut away remain neat.

STEP 3



You may need to use other tools to remove the carpet on the other side of the panel.

STEP 4



Your mounting system comes with (4) spacers that can be cut to any length to bring the Upper Pole Mounting Plate out from the door, depending on the vehicle.

NOTE:

THE (4) 5/16 X 3" HEX HEAD BOLTS ARE LONG ENOUGH FOR USE WITH THE SPACERS AT FULL LENGTH. IF YOU CUT THE SPACERS, HOWEVER, **YOU WILL NEED TO PROVIDE A SMALLER BOLT** THAT WILL OFFER AT LEAST 1/2" OF ENGAGEMENT INTO THE DOOR BASE PLATE BOSSES.

2.4 GENERIC ADJUSTMENT INSTALLATION (BRKT-AEVIT-FLR & BRKT-AEVIT

DOOR)

Now that the bases are installed, the adjustment section can now be mounted. Both the **Floor Mounting System** and the **Door Mounting System** will come with the same adjustment section. Therefore, this section pertains to both installs. The adjustment section comes pre-assembled from EMC; however, **Figures 8 & 9** show exactly how they are assembled in case you need to disassemble or replace a component. The main components of the Adjustment Section are the Input Device Articulating Swivel Bracket and the Quick Adjust Upper Pole (**Figure 8**). The main components of the Input Device Articulating Swivel Bracket are the Input Device Swivel Bracket and the Extension Arm (**Figure 9**).



FIGURE 7

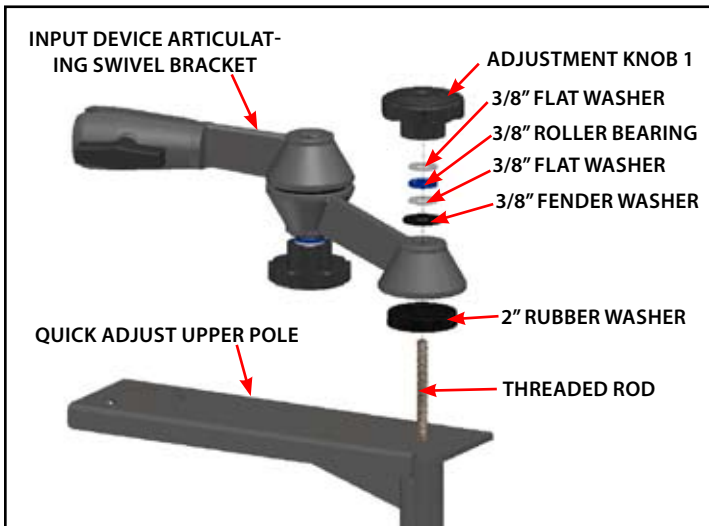


FIGURE 8 - ADJUSTMENT SECTION ASSEMBLY

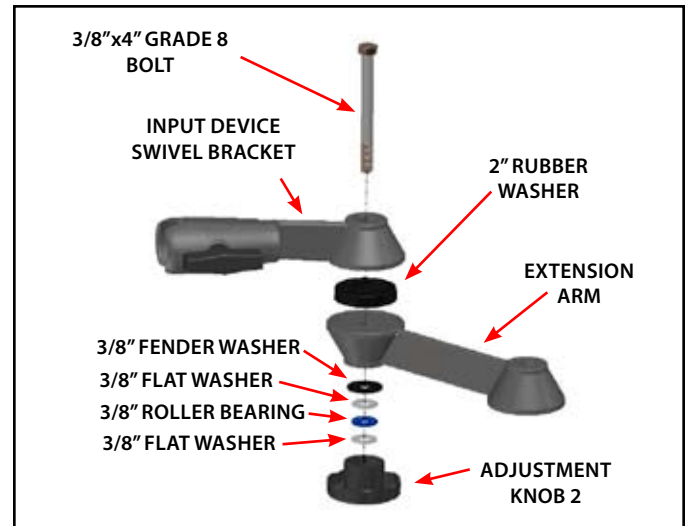


FIGURE 9 - INPUT DEVICE ARTICULATING SWIVEL BRACKET ASSEMBLY

STEP 1

Insert the Adjustment Section into either the Floor Base Plate or the Door Base that was installed in sections 2.2 and 2.3. Adjustment Knob 1 may need to be loosened for the Adjustment Section to fit into the base. When Adjustment Knob 1 is loosened, it pushes down on the threaded rod located inside of the Quick Adjust Upper Pole. This, in turn, loosens the wedge at the bottom of the Quick Adjust Upper Pole.



FIGURE 10 - FLOOR SYSTEM



FIGURE 11 - DOOR SYSTEM

STEP 2

Once the Adjustment Section Assembly is inserted into the base, it can be adjusted vertically 4". Once it is at the correct height, tighten Adjustment Knob 1 thoroughly (**Figure 12**). Verify that the Quick Adjust Upper Pole will not move under normal operating conditions.

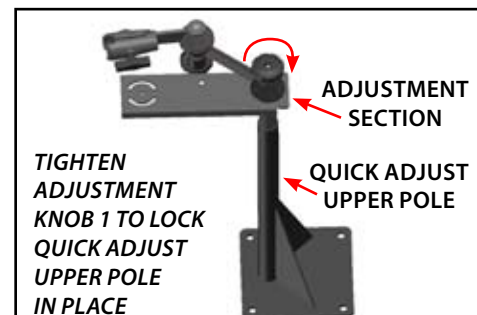


FIGURE 12 - FLOOR SYSTEM

WARNING:
FAILURE TO TIGHTEN ALL ADJUSTMENT KNOBS COMPLETELY COULD CAUSE AN ACCIDENT RESULTING IN SERIOUS INJURY AND/OR DEATH.

2.4 GENERIC ADJUSTMENT INSTALLATION (BRKT-AEVIT-FLR & BRKT-AEVIT DOOR) (CONTINUED)

STEP 3

The Input Device Articulating Swivel Bracket, as the name implies, swivels in 45° increments to allow for multiple angles for the Input Devices (**Figure 13**). To install the Input Device, simply place the ball of the Input Device into the socket of the Input Device Horizontal Swivel Bracket and tighten, using the “T” handle as shown in **Figure 14**.

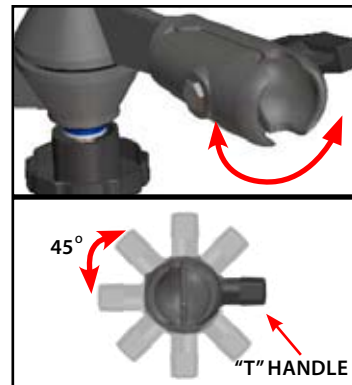


FIGURE 13

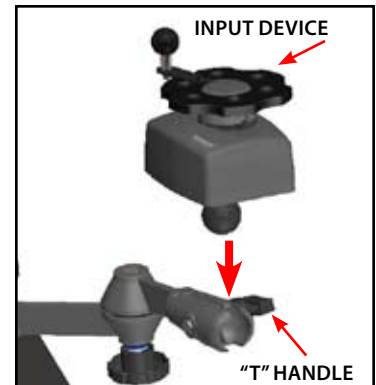


FIGURE 14: INPUT DEVICE MOUNTING

STEP 4

Once the Input Device is installed, it can be fitted for the client. Adjustment Knobs 1 & 2 are used to configure the Input Device Articulating Swivel Bracket such that the client can operate the input device both comfortably and effectively. The “T” handle can also be used to adjust the angle of the input device to the client’s needs. Once the input device and Input Device Articulating Swivel Bracket is in the correct position, tighten all adjustments such that neither the input devices nor the mounting systems move under normal operating conditions.

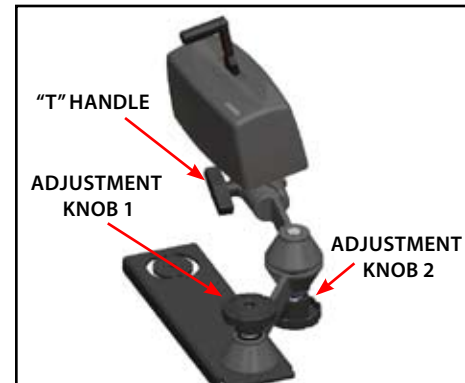


FIGURE 15

WARNING:

FAILURE TO TIGHTEN ALL ADJUSTMENT KNOBS COMPLETELY COULD CAUSE AN ACCIDENT RESULTING IN SERIOUS INJURY AND / OR DEATH.

2.5 OTHER MOUNTING OPTIONS (BRKT-AEVIT-FLR & BRKT-AEVIT DOOR)

● REVERSING ADJUSTMENT KNOB 2

The Adjustment Section of the mounting systems comes pre-assembled with Adjustment Knob 2 on the bottom of the Input Device Articulating Swivel Bracket as shown in **Figure 16**. In this position, the knob will not interfere with the input device. However, if the client wishes to have Adjustment Knob 2 on top of the bracket (**Figure 17**), the following steps should be followed for reversing it.



FIGURE 16



FIGURE 17

STEP 1

Unscrew Adjustment Knob 2 from the 4" hex head bolt shown in **Figure 18**. Remember to keep track of the hardware and the order of the flat washers when disassembling the Input Device Articulating Swivel Bracket.

STEP 2

Insert the 4" hex head bolt into the bottom of the Input Device Articulating Swivel Bracket and attach the remaining hardware to the bracket in the following order:

- 3/8" fender washer
- 3/8" flat washer
- 3/8" bearing
- 3/8" flat washer
- Adjustment Knob 2

See **Figure 19** for the full assembly.

STEP 3

Once Adjustment Knob 2 is reversed, repeat step 4 from the Generic Adjustment Section to fit the client. Once the client is fitted, tighten all adjustments such that neither the input devices nor the mounting systems move under normal operating conditions.

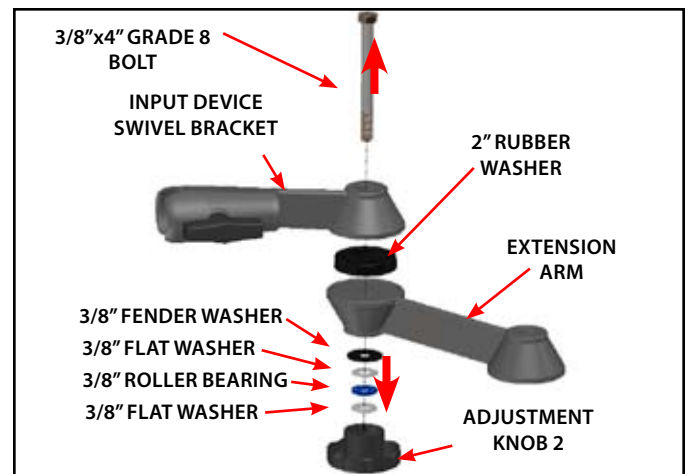


FIGURE 18

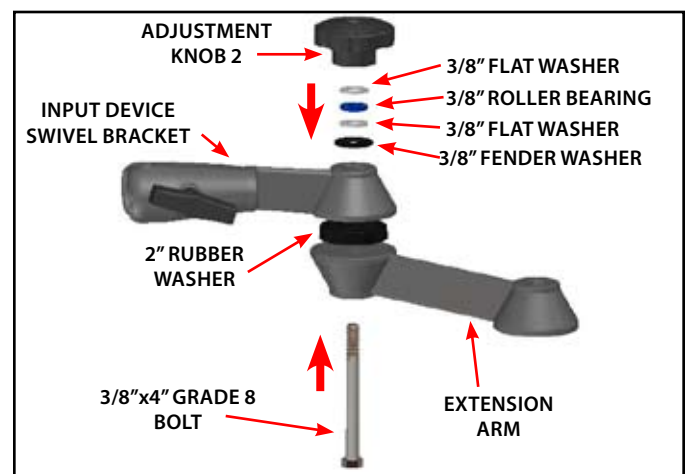


FIGURE 19

WARNING:

FAILURE TO TIGHTEN ALL ADJUSTMENT KNOBS COMPLETELY COULD CAUSE AN ACCIDENT RESULTING IN SERIOUS INJURY AND / OR DEATH.

2.5 OTHER MOUNTING OPTIONS (BRKT-AEVIT-FLR & BRKT-AEVIT DOOR) (CONTINUED)

● CUTTING THE QUICK ADJUST UPPER POLE

If only one input device is being mounted to the Quick Adjust Upper Pole, the extra length of the bracket can be removed. EMC recommends that the cut be made 3" from the "pole side" of the quick adjust upper pole as shown in **Figure 20**.

Figure 21 shows an application where cutting the Quick Adjust Upper Pole was necessary in order for the mounting bracket to fit the door panel.

NOTE:

DEBUR ALL EDGES AFTER CUTTING THE QUICK ADJUST UPPER POLE.

WARNING:

FAILURE TO TIGHTEN ALL ADJUSTMENT KNOBS COMPLETELY COULD CAUSE AN ACCIDENT RESULTING IN SERIOUS INJURY AND / OR DEATH.

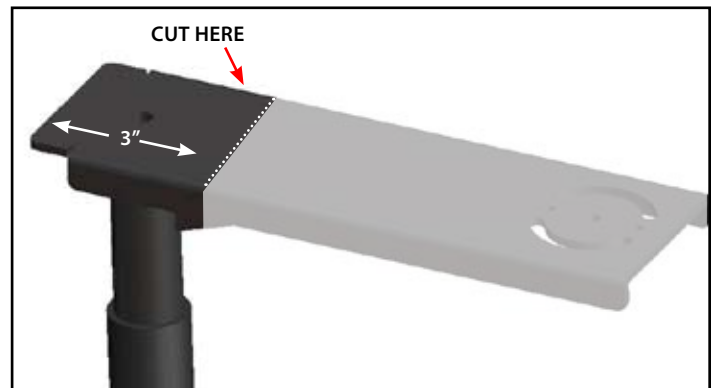


FIGURE 20



FIGURE 21

● ATTACHING ONLY THE INPUT DEVICE SWIVEL BRACKET

There are a few applications where the entire Input Device Articulating Swivel Bracket is not needed and only the Input Device Swivel Bracket is used (**Figure 22**). If this is the case, the installer will have to provide the following hardware:

- (1) 3/8" x 2 1/2" Grade 8 Hex Head Bolt
- (2) 3/8" Flat Washers
- (1) 3/8" Lock Nuts

Some of the hardware from the Input Device Articulating Swivel Bracket will be used as well. EMC recommends that the installer review page 2-5 to familiarize themselves with the components that make up the Input Device Articulating Swivel Bracket assembly.



FIGURE 22

2.5 OTHER MOUNTING OPTIONS (BRKT-AEVI-FLR & BRKT-AEVI DOOR) (CONTINUED)

● ATTACHING ONLY THE INPUT DEVICE SWIVEL BRACKET (CONTINUED)

STEP 1

Remove the Input Device Articulating Swivel Bracket from the Quick Adjust Upper Pole. (See **Figure 8**, Page 2-5 for information on this assembly). Also, remove the Input Device Swivel Bracket, (1) 2" Dia rubber washer, and Adjustment Knob 1 (**Figure 9**, Page 2-5). These components will be used in step 5 of this section.

STEP 2

At this point, there will be a threaded rod protruding from the Quick Adjust Upper Pole. Insert the 3/8" Flat Washer and Adjustment Knob 1 onto the Threaded rod (**Figure 23a**). This hardware will be used to lock the Quick Adjust Upper Pole in place much like step 2 Page 2-5. Tighten the adjustment knob and make a mark on the threaded rod such that it can be cut as to not protrude from the top of the adjustment knob when the installation is completed (**Figure 23b**). This can be done by simply making a mark on the rod at the top of Adjustment Knob 1 and then removing the knob and washer and cutting the threaded rod approximately 1/4" beneath the mark. (**Figure 24a**).

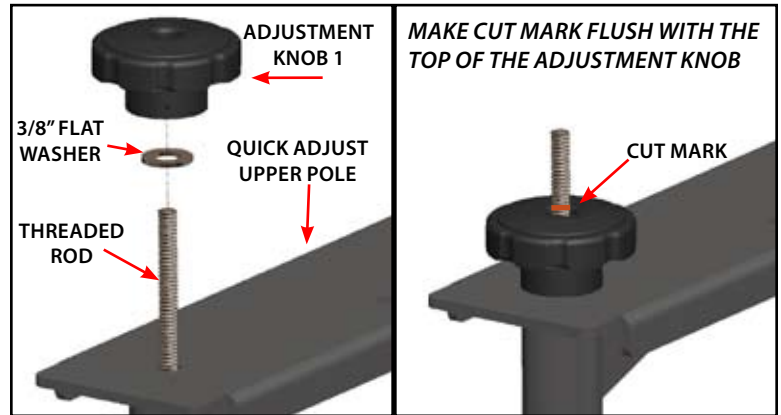


FIGURE 23a

FIGURE 23b

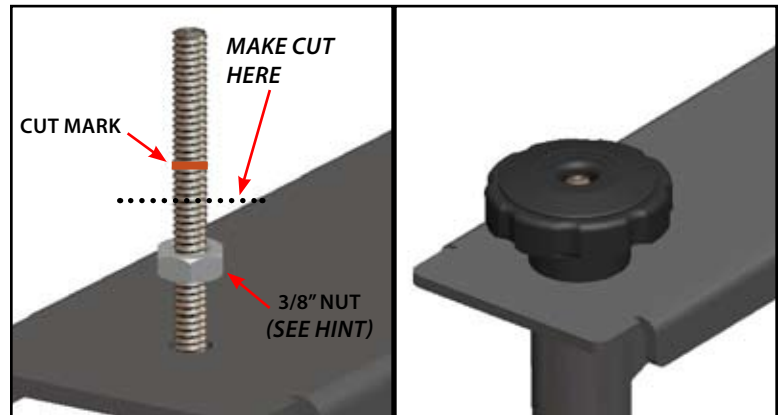


FIGURE 24a

FIGURE 24b

HINT:

PRIOR TO CUTTING THE THREADED ROD, THREAD (1) 3/8" NUT (NOT INCLUDED) ONTO THE THREADED ROD, THEN MAKE THE CUT. AFTER THE ROD IS CUT, REMOVE THE 3/8" NUT FROM THE CUT END OF THE ROD TO CLEAN/DEBUR THE THREADS.

Figure 24b shows what this assembly should look like after cutting the threaded rod.

STEP 3

Reinstall Adjustment Knob 1 and (1) 3/8" flat washer as shown in **Figure 23a**

STEP 4

Once the Quick Adjust Upper Pole is in position, a 3/8" thru hole will need to be drilled into it. Notice in **Figure 25**, there is a support webbing underneath the Quick Adjust Upper Pole. The 3/8" thru hole can be drilled anywhere along either of the two (2) dotted lines shown in **Figure 26**. Basically, the 3/8" hole will need to be drilled 7/8" from either side of the Quick Adjust Upper Pole such that the nylon and flat washers of the Input Device Swivel Bracket will not interfere with the support webbing underneath.

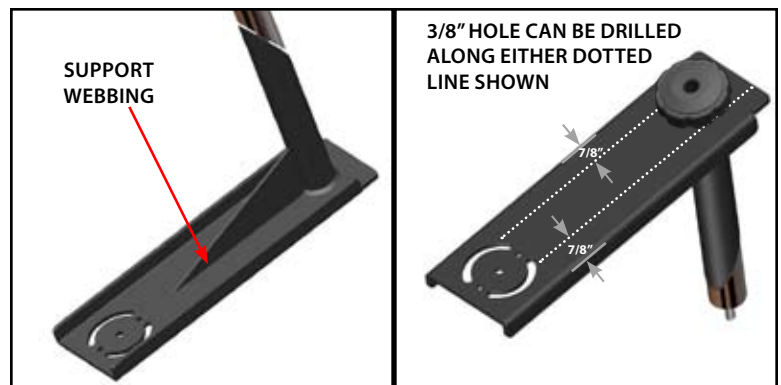


FIGURE 25 - QUICK ADJUST UPPER POLE: UNDERSIDE

FIGURE 26 - QUICK ADJUST UPPER POLE: TOPSIDE

2.5 OTHER MOUNTING OPTIONS (BRKT-AEVIT-FLR & BRKT-AEVIT DOOR) (CONTINUED)

● ATTACHING ONLY THE INPUT DEVICE SWIVEL BRACKET (CONTINUED)

STEP 5

Mount the Input Device Horizontal Swivel Bracket to the Quick Adjust Upper Pole using (1) 3/8" x 2.5" Grade 8 Bolt, (1) 2" Dia. Rubber Washer, (1) 3/8" Flat Washer, and (1) 3/8" Lock Nut. The 3/8" bolt, 3/8" flat washer and 3/8" lock nut will need to be supplied by the installer while the 2" Dia rubber washer and Input Device Swivel Bracket are from the disassembled Input Device Articulating Swivel Bracket (Step 1, Page 2-9)

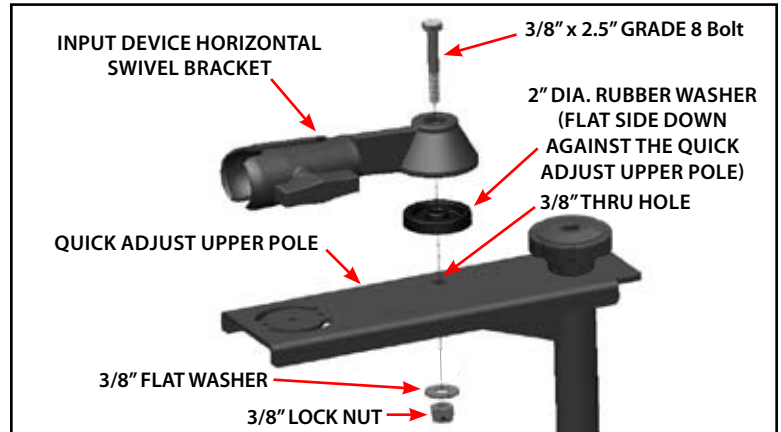


FIGURE 27

STEP 6

Tighten the 3/8" Lock Nut such that there is **NO MOVEMENT DURING NORMAL OPERATION OF THE INPUT DEVICE.**

WARNING:

FAILURE TO TIGHTEN THE 3/8" LOCK NUT COMPLETELY COULD CAUSE AN ACCIDENT RESULTING IN SERIOUS INJURY AND/OR DEATH.

STEP 7

The Input Device Horizontal Swivel Bracket, as the name implies, swivels in 45° increments to allow for multiple angles of the Input Devices (**Figure 28**). To install the Input Device, simply place the ball of the Input Device into the socket of the Input Device Horizontal Swivel Bracket and tighten using the "T" handle as shown in **Figure 29**. The completed install should resemble **Figure 30**.

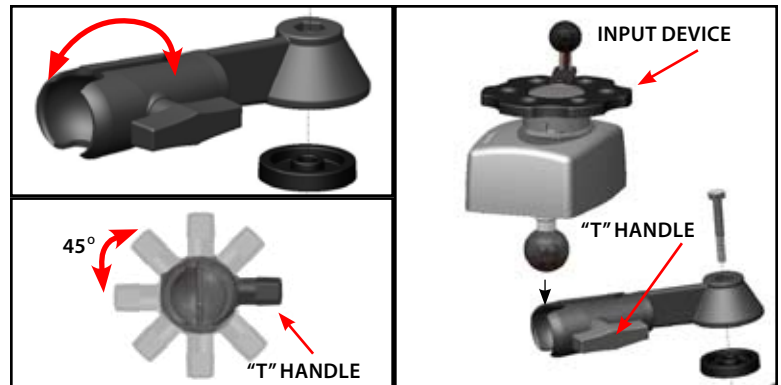


FIGURE 28

FIGURE 29: INPUT DEVICE MOUNTING



FIGURE 30

3. SECONDARY INPUT

3.1 GENERAL INFORMATION

The secondary input section will describe how to install the mounting brackets for the AEVIT 2.0 Display and switches to operate the secondary functions of the vehicle. Generally, the AEVIT 2.0 Display is mounted to the same Quick Adjust Upper Pole as the AEVIT 2.0 Wheel as shown in **Figure 31**; however, with the hardware provided, it can be installed just about anywhere. Section 3.3 will discuss mounting the switches that control the secondary functions of the vehicle. These include: Digitone 2.0, VIC 2.0, plus others.



FIGURE 31

3.2 DISPLAY BRACKET INSTALLATION (BRKT-AEVIT-DISP)

Before installing the Display Mounting system, verify that the following components are included with the BRKT-AEVIT-DISP mounting kit:

- (1) Display Vertical Support
- (2) Input Device Mounting Balls
- (1) Mounting Ball Hardware Kit

STEP 1

Attach (1) mounting ball to the AEVIT 2.0 Display (see page 1 for instructions). Determine a location to attach the second mounting ball to the Quick Adjust Upper Pole. This bracket was designed such that the mounting ball can be mounted anywhere along the Quick Adjust Upper Pole.

STEP 2

Mark and Drill (3) 3/16" thru holes into the Quick Adjust Upper Pole and install the second mounting ball to the bracket (hardware not included).

STEP 3

Mount the Display to the Display Vertical Support and the Vertical Support to the Mounting Ball that was installed in step two (**Figure 32**).

STEP 4

The standard length of the Display Vertical Support is 8". Other lengths are available on special order. Contact EMC SALES at (207) 512-8009 for more information.

NOTE:

IF ANY OF THESE COMPONENTS ARE NOT INCLUDED WITH THE BRKT-AEVIT-DISP, CALL THE EMC SERVICE DEPARTMENT. DO NOT ATTEMPT TO INSTALL WITHOUT ALL PARTS.

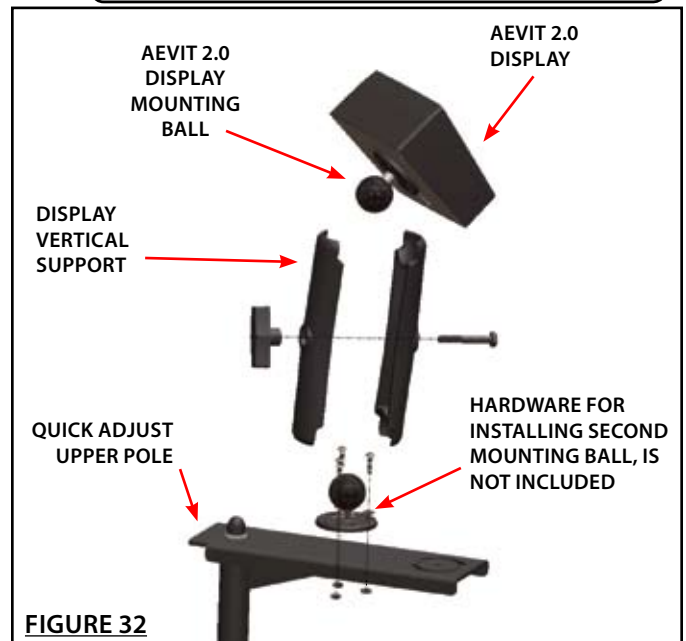


FIGURE 32

WARNING:

ALL MOUNTING HARDWARE AND FASTENERS MUST BE PROPERLY TIGHTENED TO PREVENT UNINTENDED MOVEMENT OF THE INPUT DEVICE(S) OR DISPLAY. FAILURE TO OBSERVE THIS WARNING MAY RESULT IN AN ACCIDENT CAUSING SERIOUS INJURY AND/OR DEATH.

3.3 SECONDARY FUNCTION SWITCHES

The most commonly used switch to operate secondary functions is the 1.5" Push-Button switch (**Figure 33**). This switch can be used to operate the 2.0 Digitone, VIC 2.0 and other single secondary functions. The same bracket system used to mount the AEVIT 2.0 Display can be used to mount this single switch.



FIGURE 33

STEP 1

Attach the 1.5" Push-Button switch to a Mounting Ball using a small piece of double sided tape.

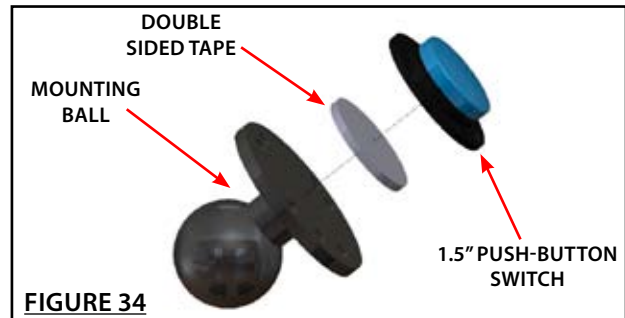


FIGURE 34

STEP 2

Attach this assembly and the second mounting ball to the Vertical Support as shown in **Figure 35**. The completed assembly should look like **Figure 36**.



FIGURE 35

FIGURE 36

STEP 3

Finally, this assembly can be mounted anywhere convenient for the client to access. A common place to locate this switch is on the "B" Pillar as shown in **Figure 37**. In this position, a client could easily use their elbow to activate the switch. However, any place where the Mounting Ball can be securely attached can be used. EMC recommends that a bracket be fabricated and mounted to a support pillar of the vehicle and the Mounting Ball be attached to it (hardware not included). **Figure 38** shows an example of this.



FIGURE 37



FIGURE 38

4. SERVICE REQUIREMENTS

MOUNTING BRACKETS

The AEVIT 2.0 Mounting Systems does not have any mandatory service requirements. However, the client should periodically check to make sure that all adjustment knobs are tightened completely. Please contact EMC Service if you have any questions regarding the AEVIT 2.0 Mounting Systems. 4

5. BEFORE OPERATING...

MOUNTING BRACKETS

It is extremely important for your client to be fully informed about the capabilities (and limits) of these mounting bracket systems. These mounting bracket systems were designed to provide nearly unlimited options for mounting of the input devices. By adjusting both Adjustment Knobs, it is possible for the client to have their input device in any position where they can operate it both effectively and comfortably. Refer to section 2.4 if you client wishes to have the mounting system adjusted and refer to section 2.5 for other mounting options that your client may wish to utilize. Once the client is fitted for the input devices and they are satisfied with the input device's position, time should be taken to go over the following NOTES, CAUTIONS and WARNINGS with them.

NOTE #1:

EMC RECOMMENDS THAT ONCE THE CLIENT IS SATISFIED WITH THE LOCATION AND POSITION OF THE INPUT DEVICES, ALL ADJUSTMENT KNOBS SHOULD BE REMOVED AND BLUE LOCTITE® SHOULD BE APPLIED TO THE THREADS. AFTER THE LOCTITE® IS APPLIED, THE KNOBS SHOULD BE REINSTALLED AND TIGHTENED COMPLETELY. THIS WILL PREVENT THEM FROM LOOSENING UNDER NORMAL OPERATION AND ACCIDENTAL IMPACTS (SEE WARNING #3).

CAUTION #1:

DAMAGE MAY OCCUR TO THE ADJUSTMENT KNOBS IF THEY NEED TO BE REMOVED AFTER THE BLUE LOCTITE® IS APPLIED. **MAKE SURE THE CLIENT IS SATISFIED WITH THE INPUT DEVICE POSITION BEFORE APPLYING THE BLUE LOCTITE®.**

WARNING #1:

THE ADJUSTMENT SECTION OF THE MOUNTING SYSTEMS IS DESIGNED FOR USE WITH ONE (OR MORE) 2" RUBBER WASHERS (SEE FIGURES 8 & 9 PG 2-4). THE PURPOSE OF THIS RUBBER WASHER IS TO FULLY SECURE TWO MOUNTING BRACKETS. IN ORDER TO SUFFICIENTLY SECURE THE MOUNTING BRACKETS TOGETHER (AND COMPRESS THE RUBBER WASHER), IT IS IMPORTANT THAT ALL ADJUSTMENT KNOBS BE TIGHTENED **FULLY** SUCH THAT THERE IS **NO MOVEMENT UNDER NORMAL OPERATING CONDITIONS.**

WARNING#2:

EACH MOUNTING SYSTEM WAS DESIGNED TO BREAK-AWAY UNDER LOADS THAT EXCEED THE NORMAL FORCES EXERTED ON THE INPUT DEVICE. SINCE NO AEVIT 2.0 INPUT DEVICE REQUIRES A FORCE OF MORE THAN 4 POUNDS, IF THE BRACKETS ARE INSTALLED CORRECTLY AND TIGHTENED PROPERLY, THESE BRACKETS WILL REMAIN STATIONARY UNDER NORMAL OPERATING CONDITIONS.

HOWEVER, IF AN EXCESSIVE FORCE IS APPLIED TO THESE BRACKETS (I.E. ACCIDENTAL IMPACTS WITH WHEEL CHAIRS, ETC...), THESE BRACKETS ARE DESIGNED TO BREAK AWAY. IF THERE ARE ANY FORCED MOVEMENTS OF THE MOUNTING BRACKETS SUCH AS THIS, **IT IS EXTREMELY IMPORTANT THAT ALL ADJUSTMENTS BE RETIGHTENED, IF POSSIBLE.** THE REASON FOR THIS IS WHEN THE BRACKETS "BREAK AWAY" AND ARE FORCED BACK INTO THEIR ORIGINAL POSITION, MOST ADJUSTMENT KNOBS BECOME LOOSENED IF BLUE LOCTITE® IS NOT APPLIED AND THEREFORE WOULD NEED TO BE RETIGHTENED.

FAILURE TO OBSERVE THIS WARNING MAY RESULT IN THE CLIENT OPERATING THE VEHICLE WITH LOOSE MOUNTING BRACKETS WHICH COULD CAUSE AN ACCIDENT RESULTING IN SERIOUS INJURY AND/OR DEATH.

WARNING #3:

IT IS EXTREMELY IMPORTANT FOR THE CLIENT KNOW THAT IT IS THEIR RESPONSIBILITY TO VERIFY THAT ALL INPUT DEVICES AND MOUNTING BRACKETS ARE SECURE BEFORE OPERATING THE VEHICLE. THEY SHOULD BE INFORMED ABOUT ALL POSSIBLE ADJUSTMENTS SO THEY CAN CHECK FOR LOOSE BRACKETS EACH TIME THEY ENTER THE VEHICLE.

FAILURE TO OBSERVE THIS WARNING MAY RESULT IN THE CLIENT OPERATING THE VEHICLE WITH LOOSE MOUNTING BRACKETS WHICH COULD CAUSE AN ACCIDENT RESULTING IN SERIOUS INJURY AND/OR DEATH.

NOTES:
