

49 Optional Davit Arch Installation Procedure



DISCONNECT SHORE POWER & TURN OFF BATTERY SWITCH BEFORE ANY INSTALLATION PROCESS

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Brief:

The Davit Arch System (DAS in the following) comes with arch assembly, 2 long struts, 2 lifting arms and all mounting kits. Generally, the arch assembly will be mounted on transom face, then install port & starboard side struts between DAS and Cockpit Arch (CA), lifting arms and accessories.

Arch assembly:

1. Lift the arch assembly with its cross member facing afterward of the boat, then locate welded mounting plate and lower mounting pad on transom face. Adjust the port and starboard side upper mounting plates upper edge to 2" below the boat transom face upper edge. (See figure 1 & 2)
2. Mark all mounting hole locations. (4 mounting holes on each mounting plate and 1 mounting hole on each leg lower end.). (See figure 1 & 2)
3. On upper plate mounting hole locations, drill $\varnothing 7/16$ " holes through marked locations on boat transom aft face. Drill $\varnothing 9/16$ " holes through marked locations on lower boat transom aft face lower end.
4. Clean up all drilling holes and use marine sealant #795 caulk (white) to caulk around all mounting holes.
5. Attach the arch assembly to the deck then secure upper mounting plates using 4 X UNS #3/8-16 x 2" long Allan Head screws, backing plate, fender washers, lock washers and designated nuts for each mounting plate. Secure all arch upper mounting plates to deck.
6. Secure the arch leg lower end to deck using UNC # $\frac{1}{2}$ -13 X 2 $\frac{1}{2}$ " long C'sunk Phillips head, backing plate, fender washers, lock washers and designated nut for each leg. Secure all screws.
7. After all mounting fasteners are secured, clean up all excess caulk.

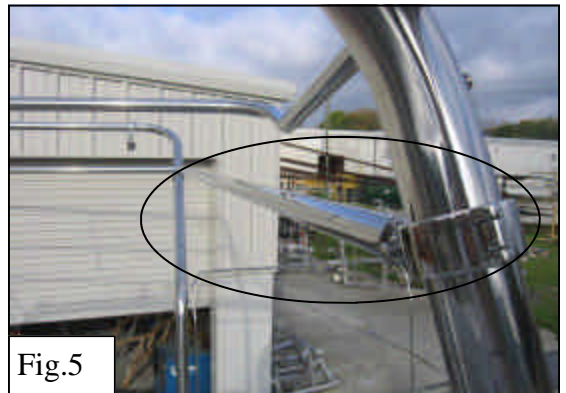
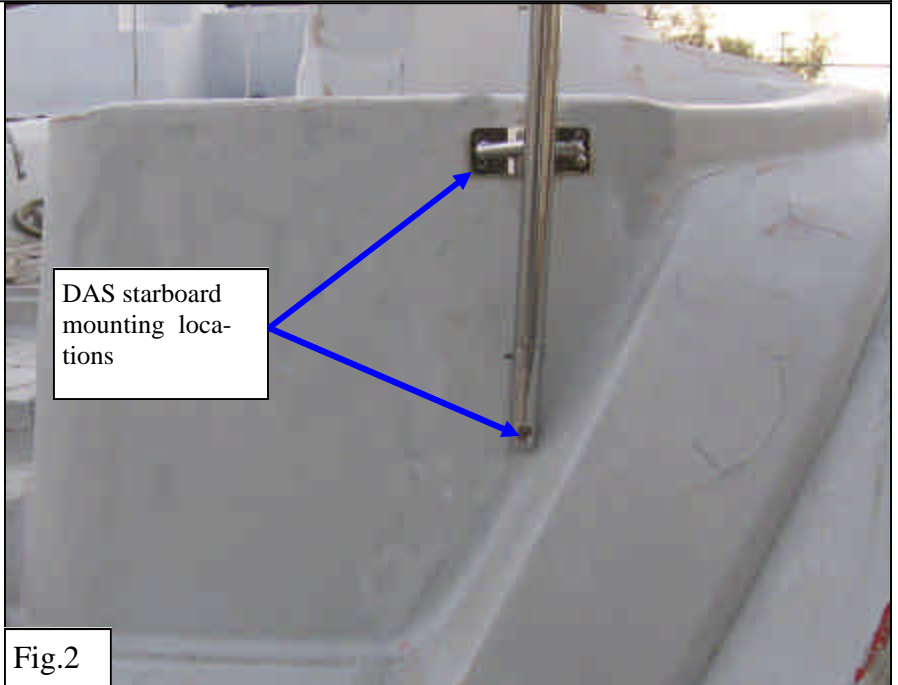
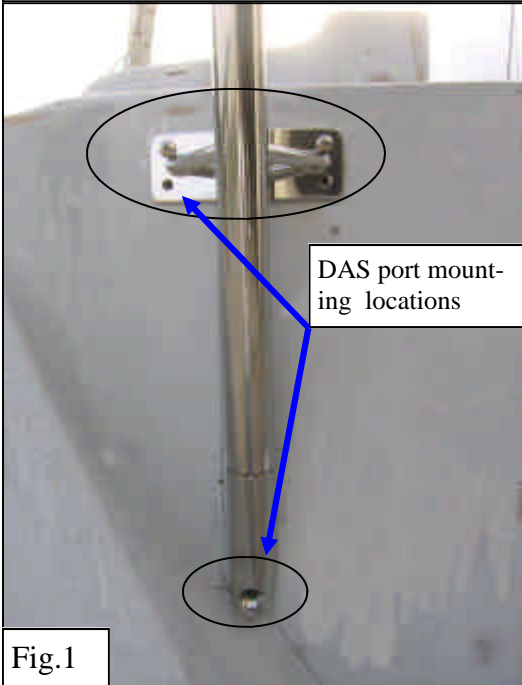
Struts:

1. No ground cables are connected to the DAS unless both struts are secured for bridging cockpit arch and DAS. Struts comes with 101" in length (mounting hole to mounting hole). Both struts need to be mounted level and between CA and DAS. (See figure 3, 4, 5)
2. 4 jaw slides (2" Bimini Clamps) will be used to connect between DAS to strut and strut to CA.
3. Install jaw slide on each arm of CA and on each arm of DAS using designated fastener, lock nuts to secure all jaw slides to arch. But don't the screws this time.
4. Install port and starboard side struts to jaw slides then secure strut to jaw slide using #1/4-20 machine screws, do not tight the screws this time. check level on each strut. Adjust height of slides when necessary for making strut level. Once the strut is level, secure all jaw slides, secure strut mounting screws.
5. Ensure both struts are installed and secured.

Lifting arms & blocks:

1. Two $\varnothing 13/32$ " through holes in U brackets that welded to lifting arms. $\varnothing 3/8$ " quick pin will be inserted to the hole when lifting arms connect to cross member of DAS. Two lifting arms need to be snapped and secured to DAS.
2. Install jaw slide on each end of lifting arm, secure the slide using designated fastener and lock nut for each jaw. Install shackle to jaw slide then secure the shackle to slide using #1/4-20 X 1-1/4" long screws that provided. (each jaw slide mounted to lifting arm get one snap shackle). (See Figure 6, 7, 8, 9 & 10)
3. Install jaw slide on each end of DAS upper cross member. Keep the slide 12" from corner, secure both jaws and install #1/4-20 screw to the slide then install "double bullet block", U shackle and screw pin to jaw slide. (See figure 12)
4. Snap lifting arm U bracket to the cross member of DAS then insert quick pin. run ropes to blocks and to lifting arms to operate lifting arms. (See figure 11, 13, 14)

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Strut & jaw slide, the slide is mounted to CA and strut is installed to jaw

DAS starboard side strut & jaw slide locations



Fig.6 Illustration shows how jaw slide mounted to lifting arm

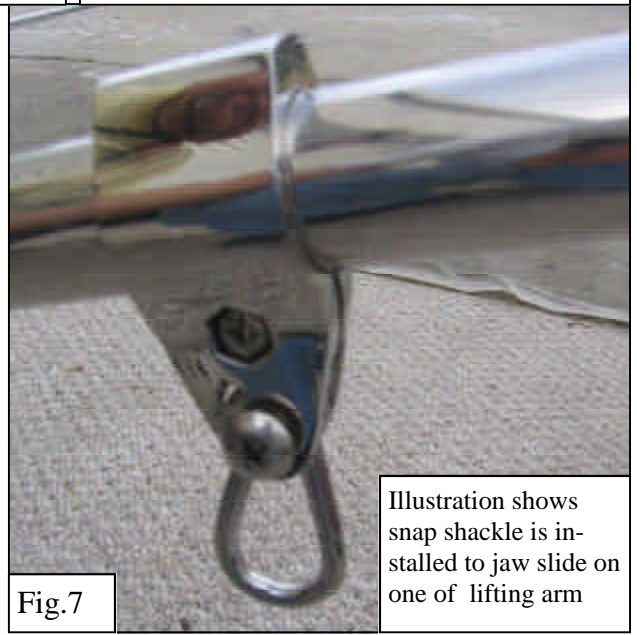


Fig.7 Illustration shows snap shackle is installed to jaw slide on one of lifting arm

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Fig. 8

Illustration shows jaw slide is mounted to the other end of the lifting arm



Fig.9



Fig. 10

Illustration shows jaw slide is mounted to the other end of the lifting arm



Fig. 11

Illustration shows lifting is snapped and pinned to cross member bar on DAS

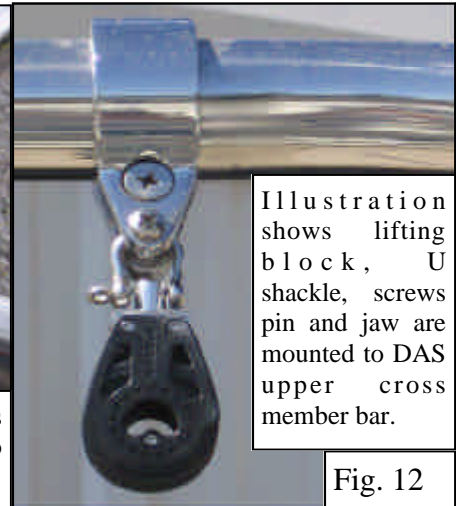


Fig. 12

Illustration shows lifting block, U shackle, screws pin and jaw are mounted to DAS upper cross member bar.



Fig. 13



Fig. 14

Figure13 & 14 shows DAS installation is complete with lifting arms are snapped and pinned to cross bar and both lifting arms are pulled by two double bullet blocks.