

356 SOP ENGINE BOX STEPS

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#	Qty.	Description	Size	Part #	#	Qty.	Description	Size	Part #
1	1	Engine Box Steps	356		8	8	Bracket & Handle Fasteners	#10 x 5/8" P/H	
2	2	Break Apart Hinge	1-1/2"	314915	9	1	Strap	1" x 30"	306630
3	8	Top Half Hinge Fasteners	10-24 x 1" O/H	465990	10	1	Lower Strap Fastener	#10 x 1" O/H	465630
4	8	Bottom Half Hinge Fasteners	#10 x 1" O/H	465630	11	1	Upper Strap Fastener	10-24 x 1" O/H	456990
5	1	Latch		315005	12	2	Finish Washer	#10	469170
6	1	Latch Bracket			13	3	Locknut	10-24	465210
7	1	Handle	320	307334	14	1	Teardrop cover		
					15	1	Teardrop Fastener	#10 x 3/4" F/H	461550

1. Before installing the engine box steps into the hull some hardware will need to be attached first.
2. One end of the strap will need to be attached to the aft-port side of the steps. Measure 2" forward of the aft edge and 2" up from the bottom then drill this location with a 13/64" drill bit. Secure the strap to the inside of the steps using a 10-24 x 1" panhead machine screw and a 10-24 locknut (the locknut goes to the inside of the engine box).
3. The two hinges will be installed on the forward side of the steps. Near the bottom of the steps measure approximately 3" in from each side and mark this location. Place the half of the hinge that has the long arm so the arm is facing down and perpendicular to the bottom of the engine box steps, the outboard edge of the hinge should be lined up with the marked line and the gasket at the bottom of the engine box steps centered between the two hinge halves. Mark the mounting hole locations then drill the marked locations with a 13/64" drill bit. Secure the hinges to the engine box using 10-24 x 1" oval head machine screws and locknuts.
4. On the top of the engine box steps find the center of the top, port to starboard, then measure 2-1/2" forward of the back edge of the rubber gasket (2-3/8" if you pull the tape against the gasket and deform it about 1/8"). Drill this location with a 3/4" drill bit. On the inside of the steps dremel a slope on the aft side of the hole so the latch will work properly.
5. Place the engine box steps in position so it is centered port to starboard between the bulkheads. Mark the mounting holes locations of the bottom halves of the hinges onto the pan then drill the marked locations with a 5/32" drill bit. Secure the hinges to the pan using #10 x 1" oval head woodscrews.
6. Open the engine box steps until it is approximately 2" from the galley then secure the loose end of the strap to the pan with a #10 x 1" ovalhead woodscrew and #10 finish washer.
7. Close the steps then in the center lightly mark where the top of the steps meet the forward engine box bulkhead. Open the steps then place the engine latch bracket so it is centered port to starboard and 1" under the marked line. Mark the mounting hole locations then drill the marked locations with a 5/32" drill bit and secure the bracket to the forward engine box bulkhead using #10 x 5/8" panhead woodscrews. Place the latch into the bracket so the top of the latch is approximately 1-1/2" above the bracket.
8. Close the steps then place the large hole in the handle over the latch which should be protruding up thru the 3/4" hole in the top of the steps (the raised part of the handle goes forward). Push the steps tight against the engine box so there is a good seal between the steps and bulkhead then mark the handle mounting hole locations onto the engine box steps. Drill the marked locations with a 5/32" drill bit then secure the handle to the steps with #10 x 5/8" panhead woodscrews.
9. On the starboard side of the front face measure 8-1/2" down from the top and 2" in from the starboard edge. Drill this location with a 1-1/8" drill bit. Place the large end of the teardrop cover over this hole so the small end of the teardrop is up then drill thru the small end with a 5/32" drill bit and secure the teardrop cover to the steps with a #10 x 3/4" flathead woodscrew. The teardrop cover needs to be able to rotate so the large hole can be accessed, so do not over tighten.

Revision Dates:

Expected Time: 30 min.

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