

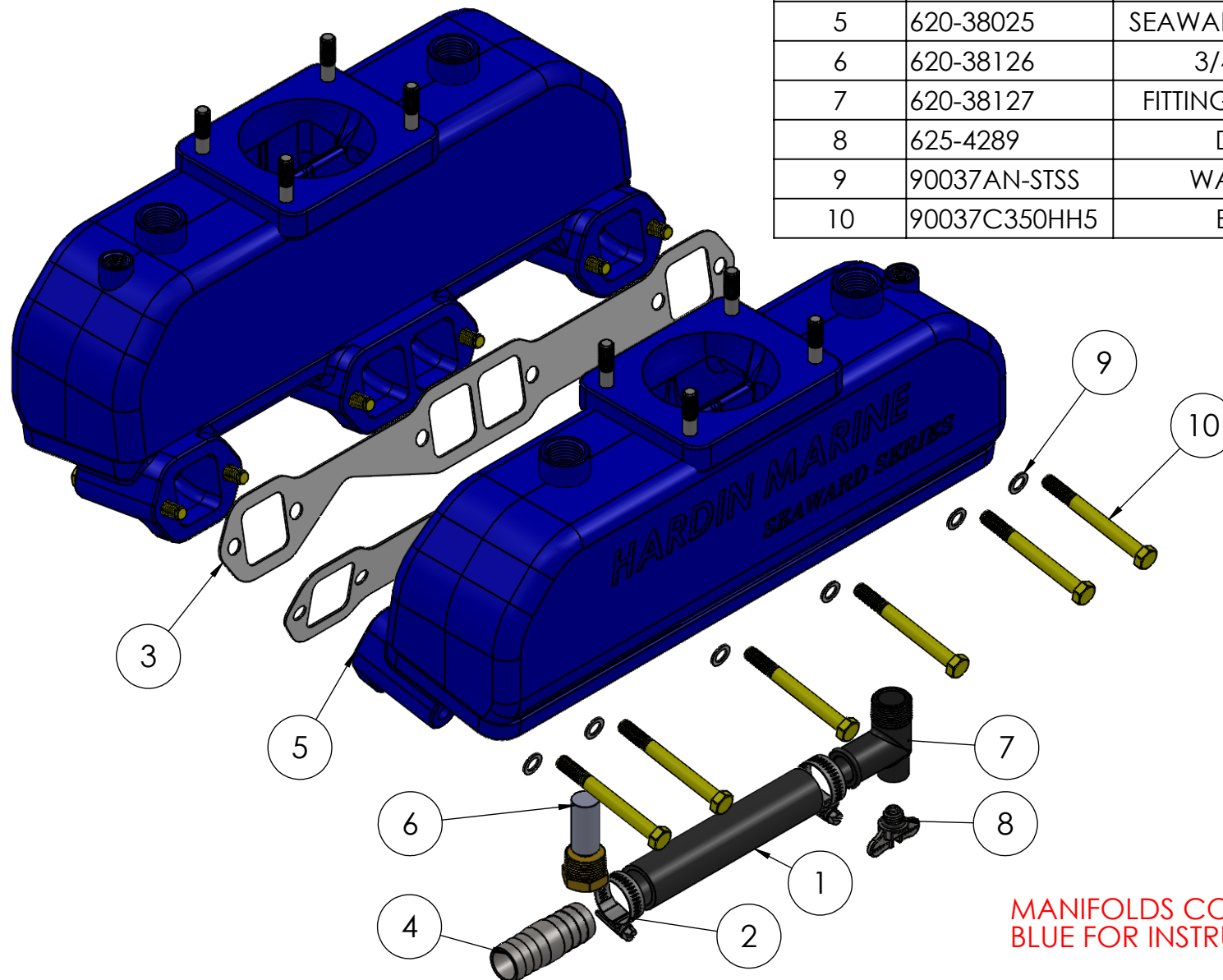
HARDIN MARINE 11 Industry Dr. Palm Coast, FL 32137  
386-445-2500 / FAX 386-445-1122

PART NO.  
620-38031

TITLE: SEAWARD SBC MANIFOLD -620-38025 & 620-38101  
INSTALL KIT

www.hardin-marine.com

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100-100-1004	1" WATER HOSE	18"
2	100-720-6316	HOSE CLAMP	4
3	300-1404	SBC EXHAUST GASKET	2
4	540-223025	SPLICE, 1" HOSE	2
5	620-38025	SEAWARD SBC MANIFOLD	2
6	620-38126	3/4 NPT ANODE	2
7	620-38127	FITTING, SEAWARD INLET	2
8	625-4289	DRAIN PLUG	2
9	90037AN-STSS	WASHER, 3/8 AN	12
10	90037C350HH5	BOLT, 3/8-16	12



MANIFOLDS COME BLACK. SHOWN IN  
BLUE FOR INSTRUCTION PURPOSES.

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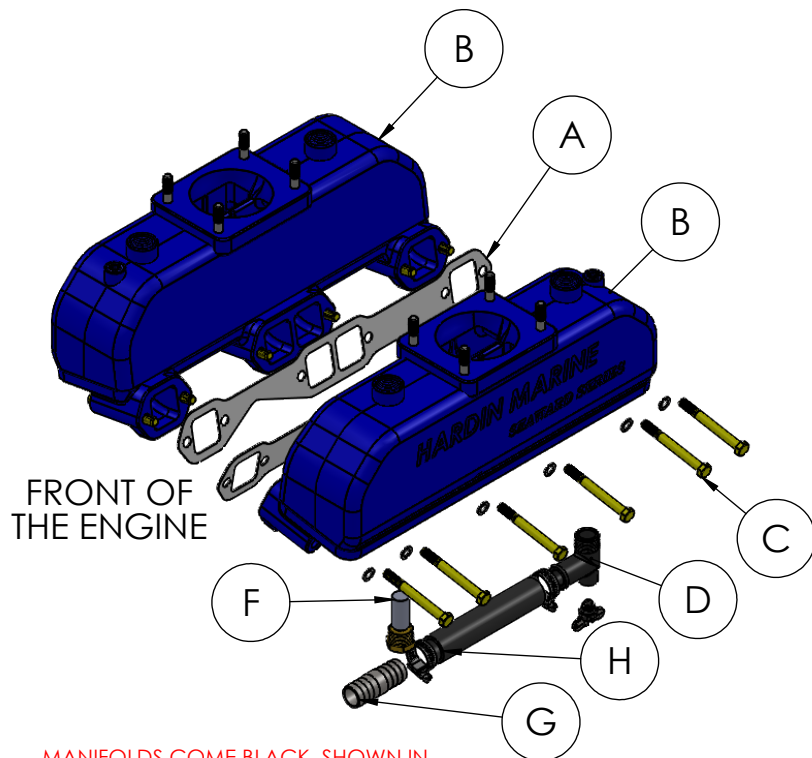
**HARDIN  
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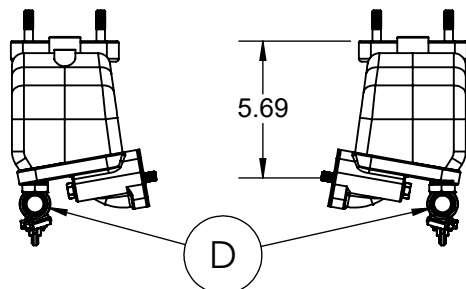
PART NO.  
**620-38031**

TITLE: **SEAWARD SBC MANIFOLD INSTALL**  
- 620-38025 & 620-38101

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MANIFOLDS COME BLACK. SHOWN IN  
BLUE FOR INSTRUCTION PURPOSES.



**WARNING\*\* ANODES ARE A  
SERVICEABLE PART AND SHOULD  
BE INSPECTED ROUTINELY  
DEPENDING ON THE NATURE OF  
THE BOATING ENVIRONMENT.**

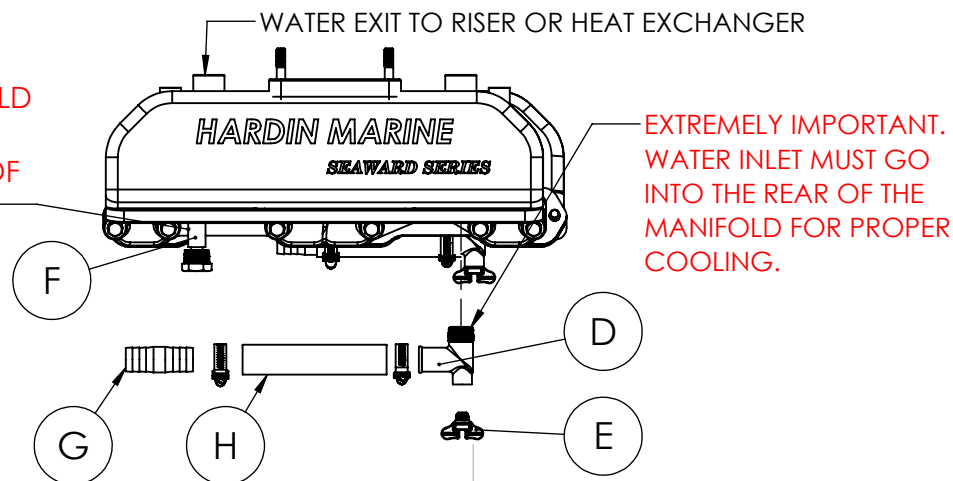
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#### INSTALLATION INSTRUCTIONS:

- 1) MAKE SURE CYLINDER HEAD EXHAUST MOUNTING SURFACE IS FREE OF KNICKS AND ANY OLD GASKET MATERIAL IS REMOVED. SEALANT IS NOT REQUIRED ON THE NEW SUPPLIED GASKETS. FIG. A.
- 2) THE PORT AND STARBOARD MANIFOLDS ARE THE SAME PART AND CAN BE USED ON EITHER SIDE OF THE ENGINE. FIG. B.
- 3) INSTALL MANIFOLDS WITH THE SUPPLIED 3/8 BOLTS AND WASHERS. APPLY ANTI-SIEZE TO 3/8 MOUNTING BOLTS, FIG.C . USING A 9/16 SOCKET, TORQUE TO 30 FT. LBS..
- 4) SIDE VIEW BELOW AND ISOMETRIC VIEW TO THE LEFT SHOWS PORT SIDE MANDITORY WATER INLET POSITION. 1" HOSE BARB FITTING MUST BE INSTALLED INTO THE BOTTOM, REAR PORT OF THE MANIFOLD, FIG. D. NO ADDITIONAL SEALANT IS NEEDED. CAREFULL NOT TO CROSS THREAD THE FITTING. DO NOT OVER TIGHTEN. DO NOT USE THIS FITTING FOR 2005 + MERCURY ENGINES WITH SINGLE AND 3 POINT DRAIN SYSTEMS.
- 5) INSTALL DRAIN PLUG, FIG. E, INTO THE BOTTOM OF THE WATER INLET BUNG.
- 6) USING 1-1/16 SOCKET, INSTALL 3/4 ANODE PLUG, FIG. F, INTO THE FRONT WATER INLET BUNG. NO ADDITIONAL SEALANT IS NEEDED.
- 7) INSTALL 1" SPLICE, FIG. G INTO YOUR EXISTING STOCK WATER INLET HOSE.
- 8) CUT TO LENGTH THE PROVIDED HOSE, FIG. H TO CONNECT THE STOCK HOSE TO WATER INLET FITTING IN THE REAR OF THE MANIFOLD, FIG. D. INSTALL HOSE CLAMPS. (MAKE SURE IT IS A CONSTANT FLOW WATER SUPPLY).
- 9) GO TO 620-38046 TAILPIPE INSTRUCTIONS TO COMPLETE INSTALLATION.

**CAUTION\*\* HARDIN MARINE MANIFOLD SYSTEMS ARE DESIGNED FOR USE ON ENGINES WITH FULL TIME CONSTANT WATER CIRCULATION AT ALL TIMES.**

**NOTE\*\* AFTER APPROXIMATELY 2-5 HOURS USE OR NUMEROUS ENGINE HEAT CYCLES ALL HARDWARE MUST BE RETORQUED AND OR TIGHTENED.**



HARDIN MARINE 11 Industry Dr. Palm Coast, FL 32137  
386-445-2500 / FAX 386-445-1122

PART NO.  
620-38045  
620-38045Z

TITLE:

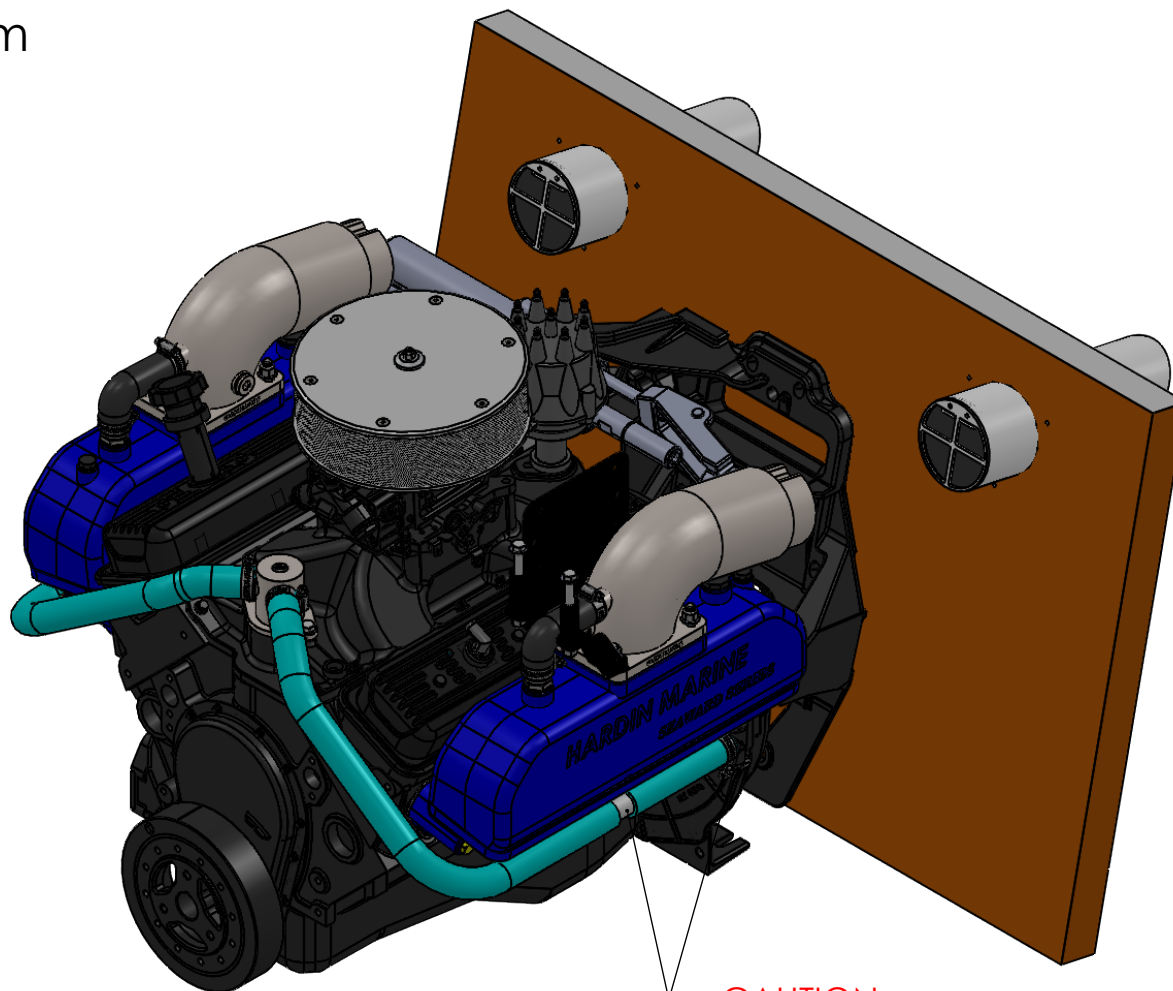
## SBC SEAWARD HOSE DIAGRAM

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SEAWARD EXHAUST MANIFOLDS REQUIRE A CONSTANT FLOW OF COOLING WATER. COOLING SYSTEM MUST BE PLUMBED FROM THE ENGINES TOP WATER DISCHARGE OR THERMOSTAT HOUSING TO THE BOTTOM REAR INLET PROVISION OF THE EXHAUST MANIFOLD. WATER FLOWS FROM THE BACK OF THE MANIFOLD AND OUT THE TOP OF THE FRONT PORT ON THE MANIFOLDS. WATER IS DISCHARGED THROUGH A JUMP CONNECTION HOSE TO THE EXHAUST RISER FOR COOLING.

FOR ENGINES WITH 4 PORT THERMOSTAT HOUSINGS. PURCHASE A 420-910311 "y" FITTING AND TIE 2 HOSES INTO 1.

FOR ENGINES WITH CLOSED COOLING. THE ANTIFREEZE COMING OUT OF THE TOP-FRONT OF THE MANIFOLD IS PLUMBED BACK TO THE HEAT EXCHANGER. THE HEAT EXCHANGER WATER DISCHARGE IS PLUMBED TO THE RISER.



**CAUTION:**  
THE WATER INLET HAS TO BE TO THE BACK PORT OF THE EXHAUST MANIFOLDS. WE PROVIDE HOSE AND SLICE TO EXTENDED YOUR STOCK OEM HOSE.

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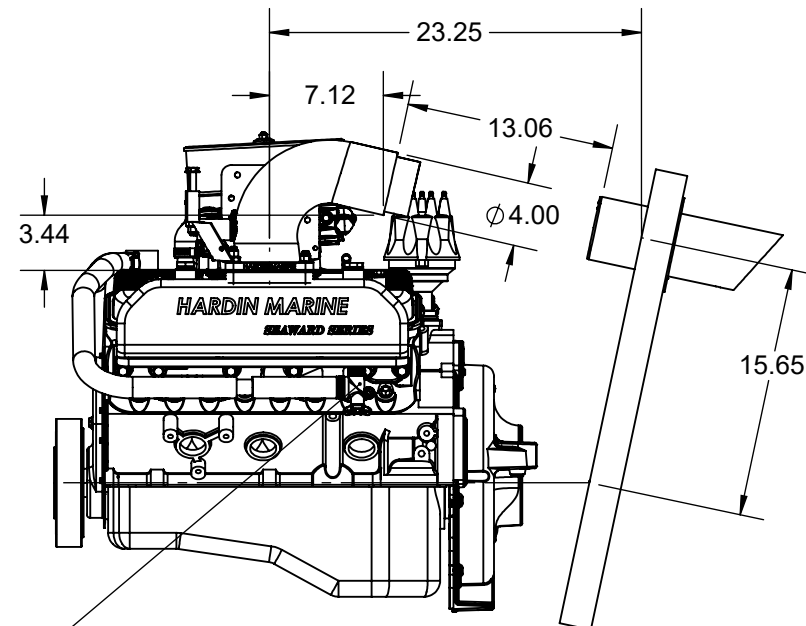
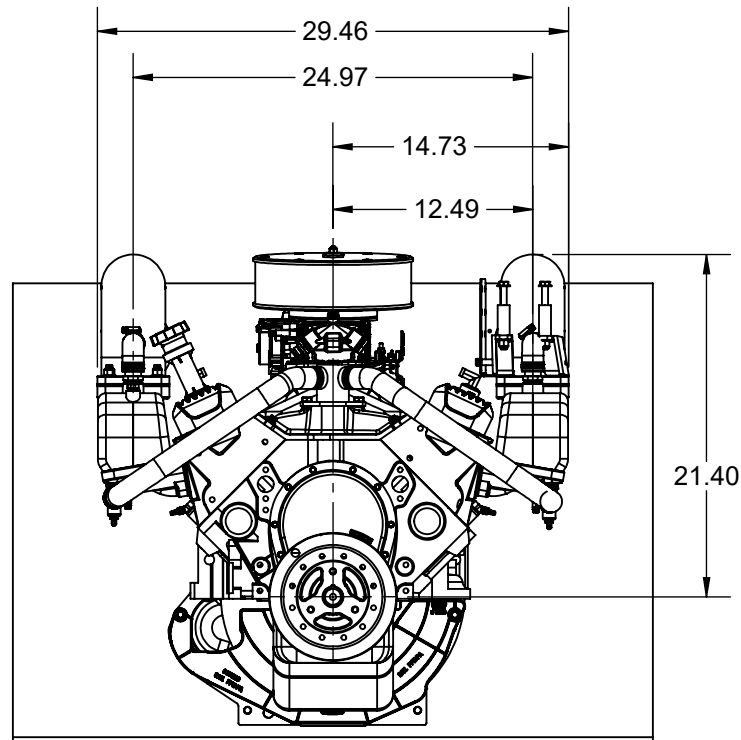
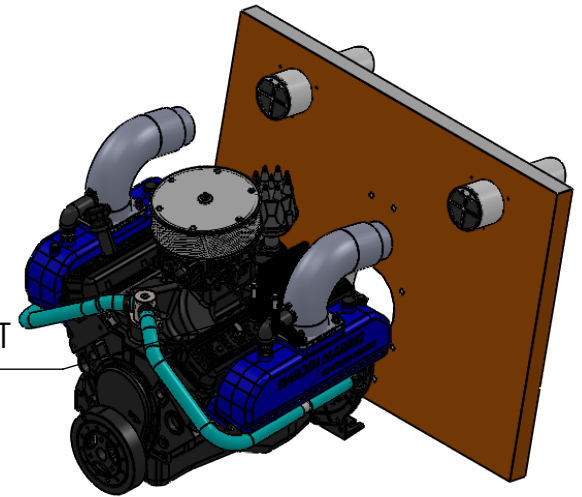
PART NO.  
620-38044  
620-38044Z

TITLE:

SEAWARD SBC w/ 3' TALLER STD. RISER

[www.hardin-marine.com](http://www.hardin-marine.com)

SHOWN WITH OPTIONAL  
620-38050 OIL FILTER BRACKET  
& 620-38051 SHIFT BRACKET.



**CAUTION:**  
THE WATER INLET HAS TO BE TO THE BACK PORT OF  
THE EXHAUST MANIFOLDS. WE PROVIDE HOSE AND  
SLICE TO EXTENDED YOUR STOCK OEM HOSE.

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PART NO.  
620-38045  
620-38045Z

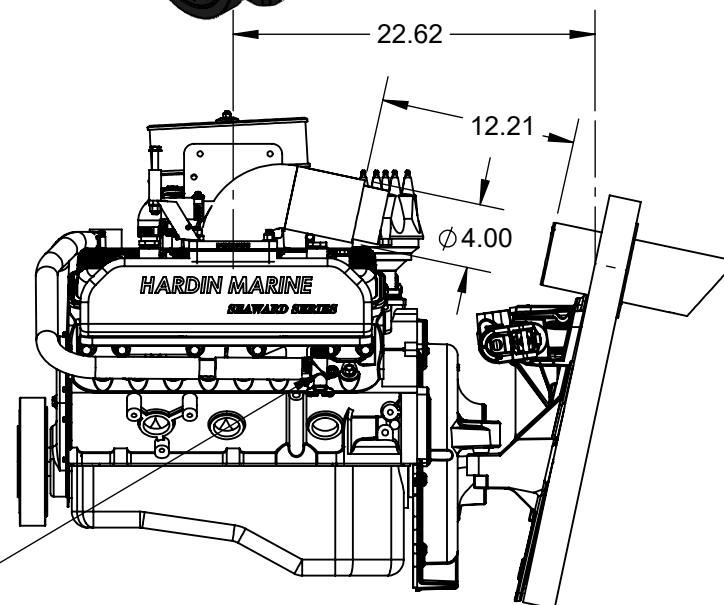
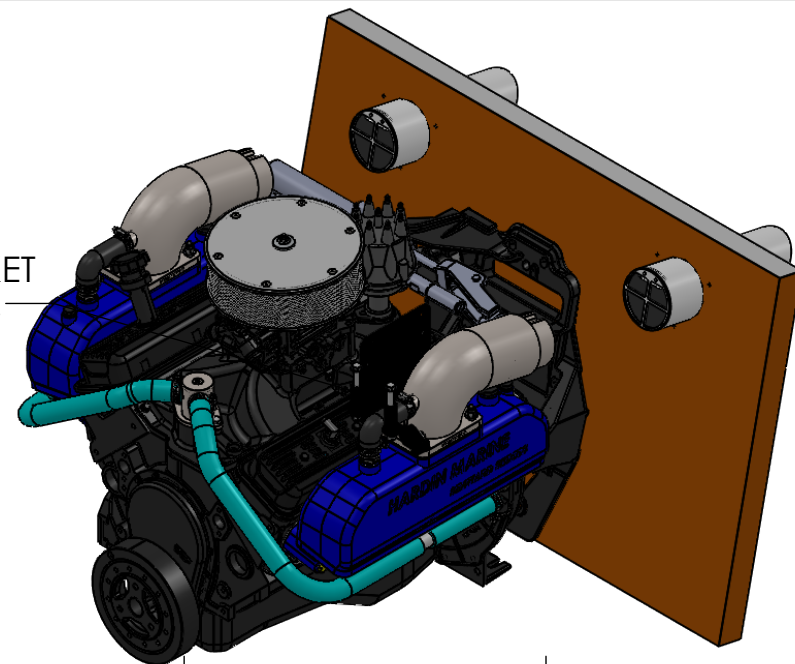
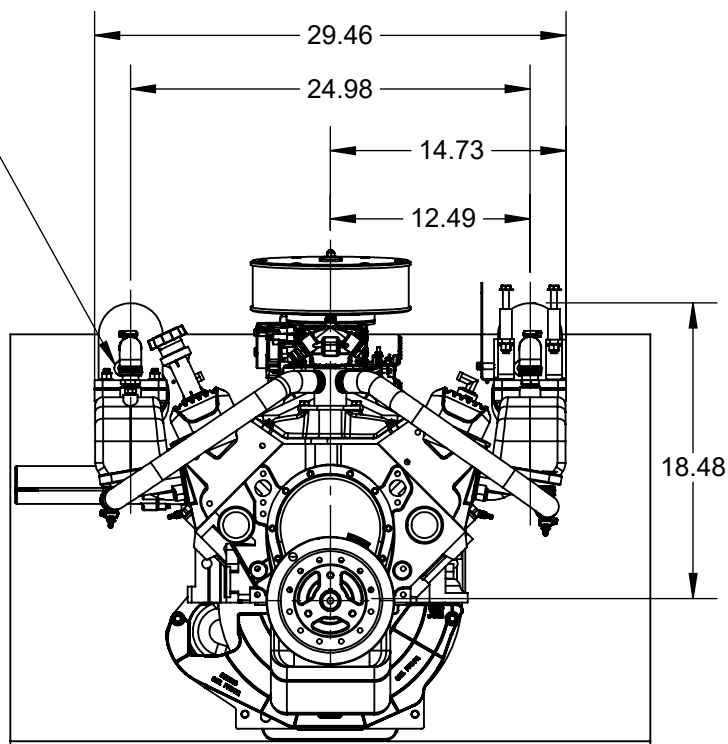
TITLE:

## SEAWARD SBC DIMENSIONS

[www.hardin-marine.com](http://www.hardin-marine.com)

SHOWN WITH OPTIONAL  
620-38050 OIL FILTER BRACKET  
& 620-38051 SHIFT BRACKET.

BOTH RISERS COME WITH O-2 BUNG AND  
PLUG IN THE FRONT STBD SIDE OF THE RISER.



**CAUTION:**  
THE WATER INLET HAS TO BE TO THE BACK PORT OF  
THE EXHAUST MANIFOLDS. WE PROVIDE HOSE AND  
SLICE TO EXTENDED YOUR STOCK OEM HOSE.

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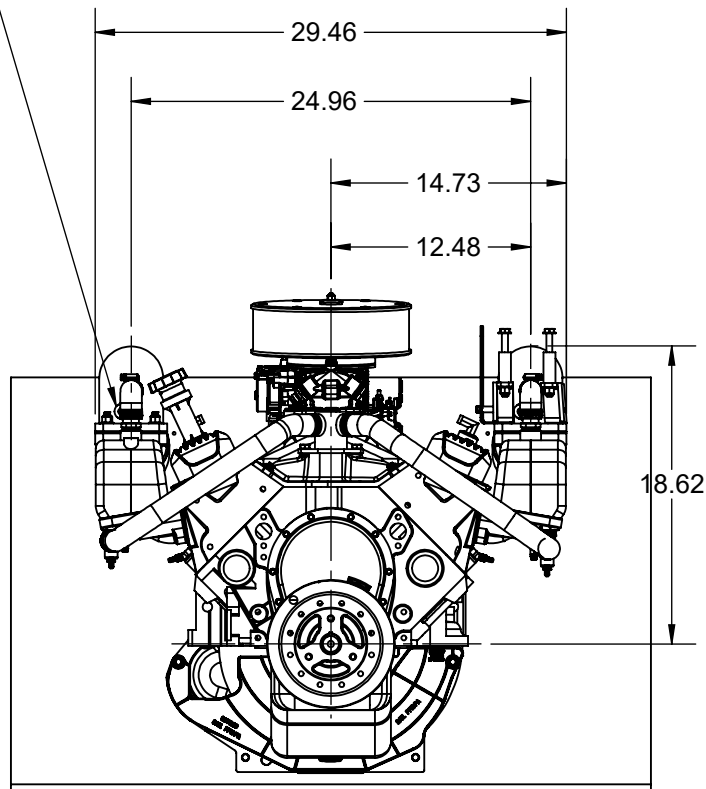
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620-38048Z

TITLE:

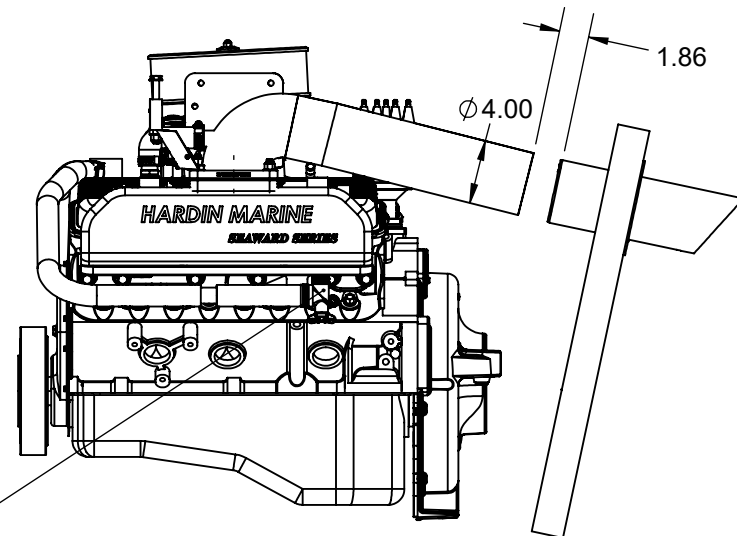
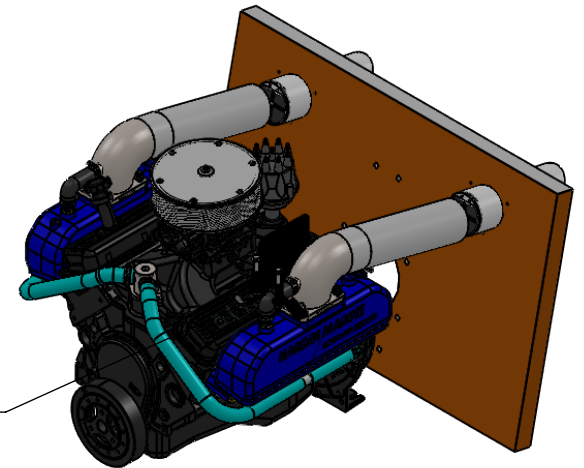
SEAWARD SBC w/ XL RISER

[www.hardin-marine.com](http://www.hardin-marine.com)

BOTH RISERS COME WITH O-2  
BUNG AND PLUG IN THE FRONT  
STBD SIDE OF THE RISER.



SHOWN WITH OPTIONAL  
620-38050 OIL FILTER BRACKET  
& 620-38051 SHIFT BRACKET.



**CAUTION:**  
THE WATER INLET HAS TO BE TO THE BACK PORT OF  
THE EXHAUST MANIFOLDS. WE PROVIDE HOSE AND  
SLICE TO EXTENDED YOUR STOCK OEM HOSE.

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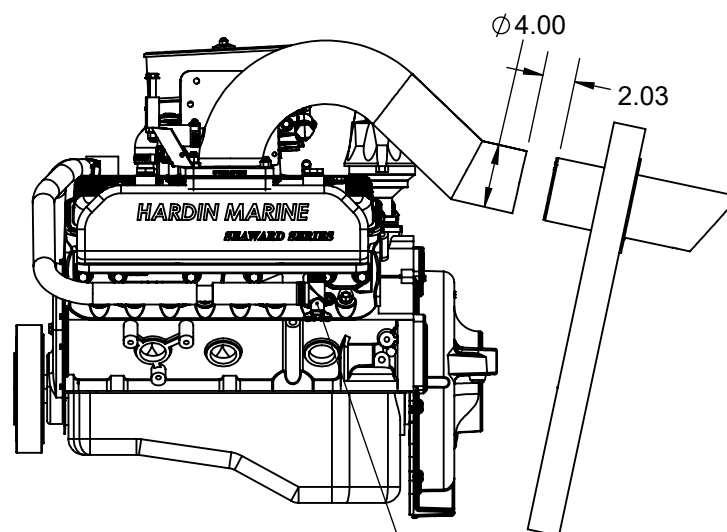
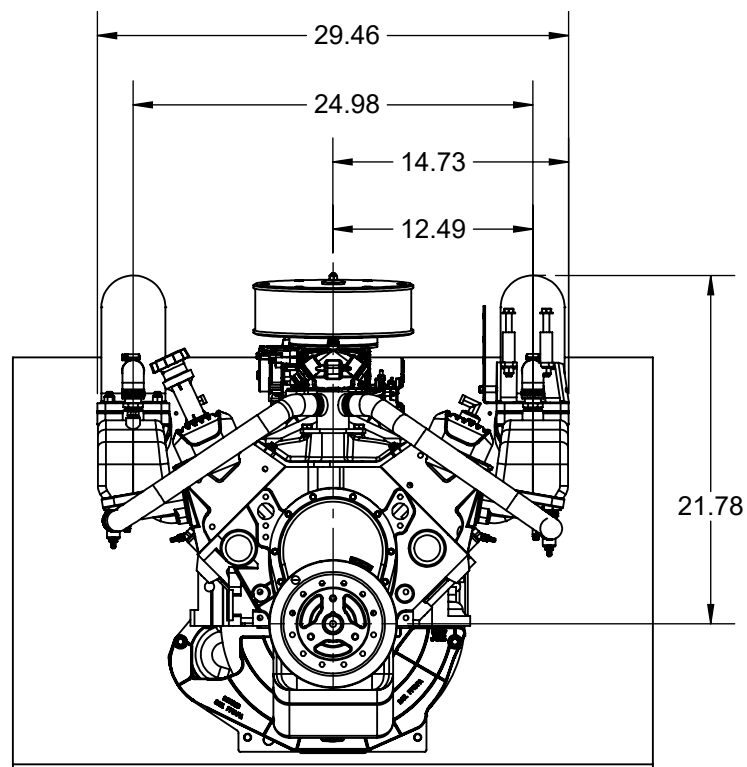
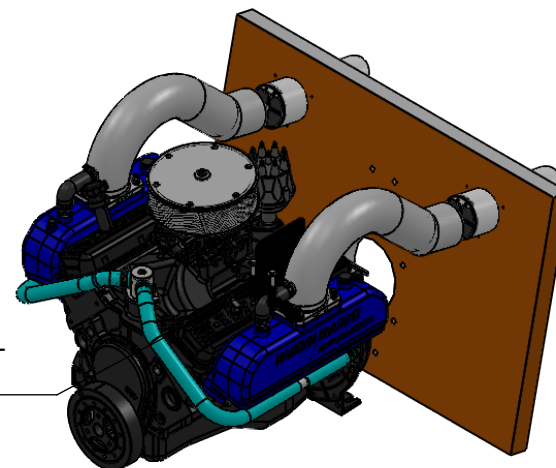
PART NO.  
620-38049  
620-38049Z

TITLE:

SEAWARD SBC w/ HP RISERS

[www.hardin-marine.com](http://www.hardin-marine.com)

SHOWN WITH OPTIONAL  
620-38050 OIL FILTER BRACKET  
& 620-38051 SHIFT BRACKET.



**CAUTION:**  
THE WATER INLET HAS TO BE TO THE BACK PORT OF  
THE EXHAUST MANIFOLDS. WE PROVIDE HOSE AND  
SLICE TO EXTENDED YOUR STOCK OEM HOSE.

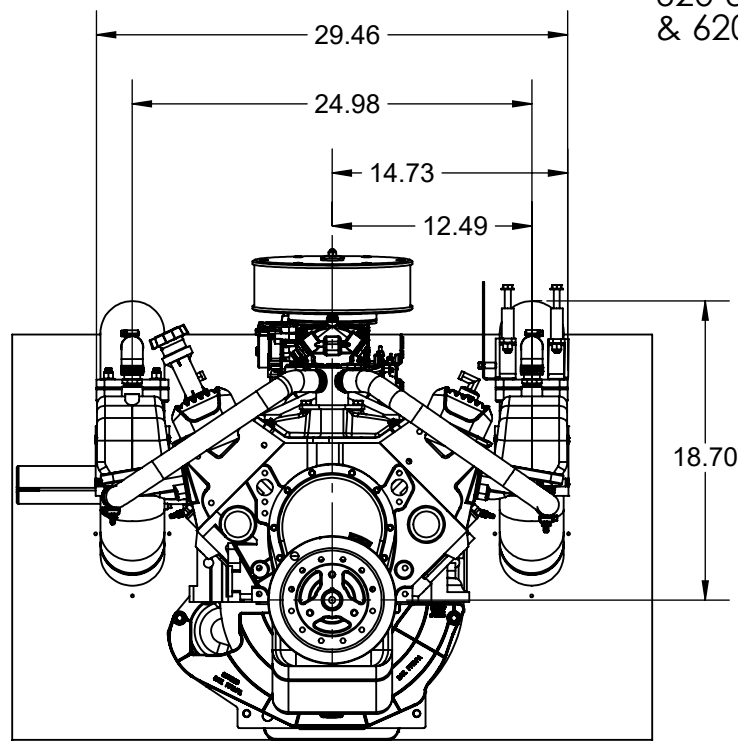
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PART NO.  
620-38106  
620-38106Z

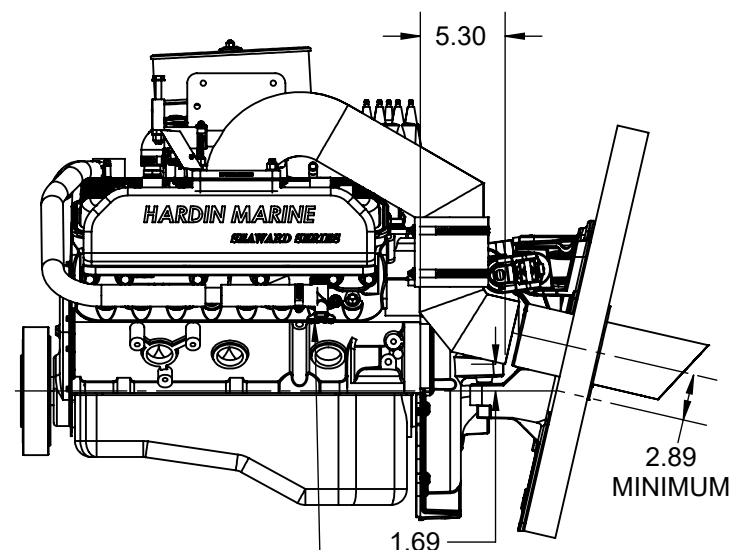
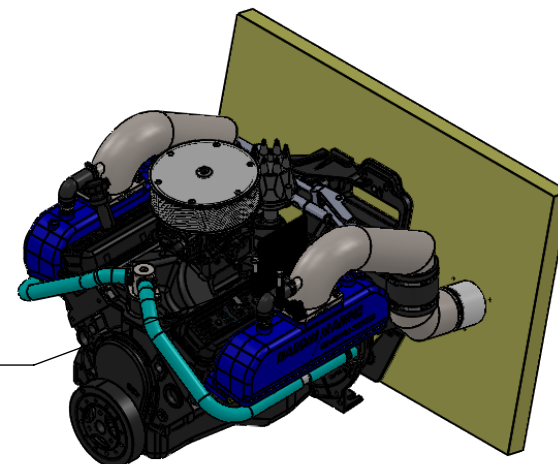
TITLE:

SEAWARD SBC w/ LOW EXIT TAILPIPES

[www.hardin-marine.com](http://www.hardin-marine.com)



SHOWN WITH OPTIONAL  
620-38050 OIL FILTER BRACKET  
& 620-38051 SHIFT BRACKET.



**CAUTION:**  
THE WATER INLET HAS TO BE TO THE BACK PORT OF  
THE EXHAUST MANIFOLDS. WE PROVIDE HOSE AND  
SLICE TO EXTENDED YOUR STOCK OEM HOSE.

MINIMUM LENGHT IS 9-5/8 WITH 5" OF HOSE AND 12-5/8 WITH 8" OF HOSE. WE SUPPLY KIT WITH 16" OF  
HOSE AND 4 HOSE CLAMPS. IF YOU NEED IT TO BE LOWER YOU WILL NEED TO BUY MORE 100-200-4004  
4" EXHAUST HOSE. MAKE SURE TO HAVE MINIMUM 2-1/2 OF HOSE CLAMPING ON BOTH THE UPPER  
TAILPIPE AND THE LOWER EXIT. DIMENSIONS ABOVE ARE THE MINIMUM ASSEMBLED HEIGHT.

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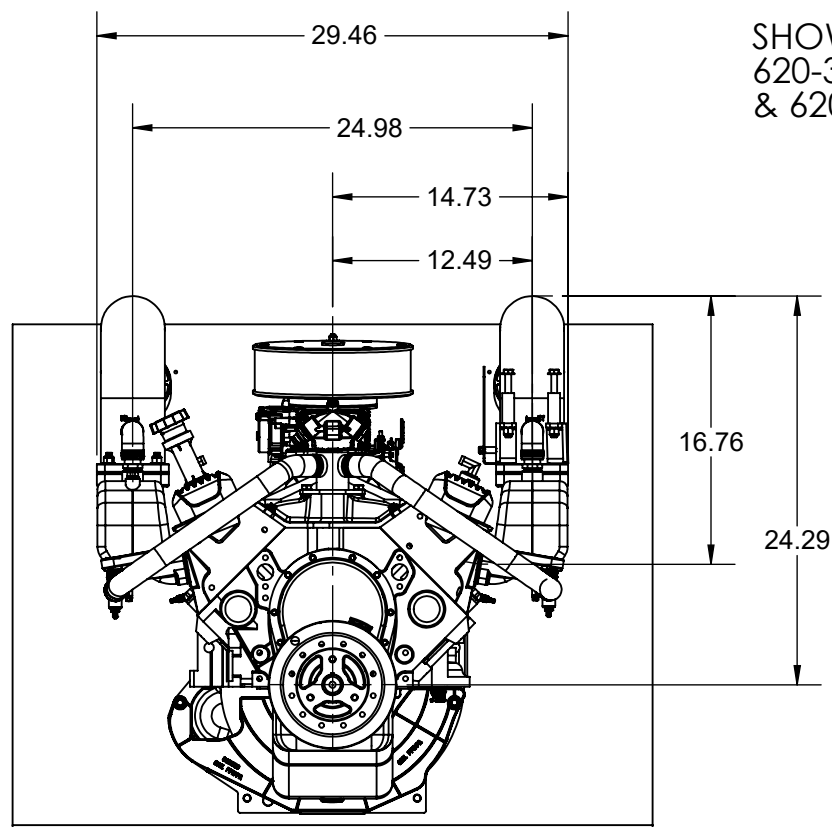


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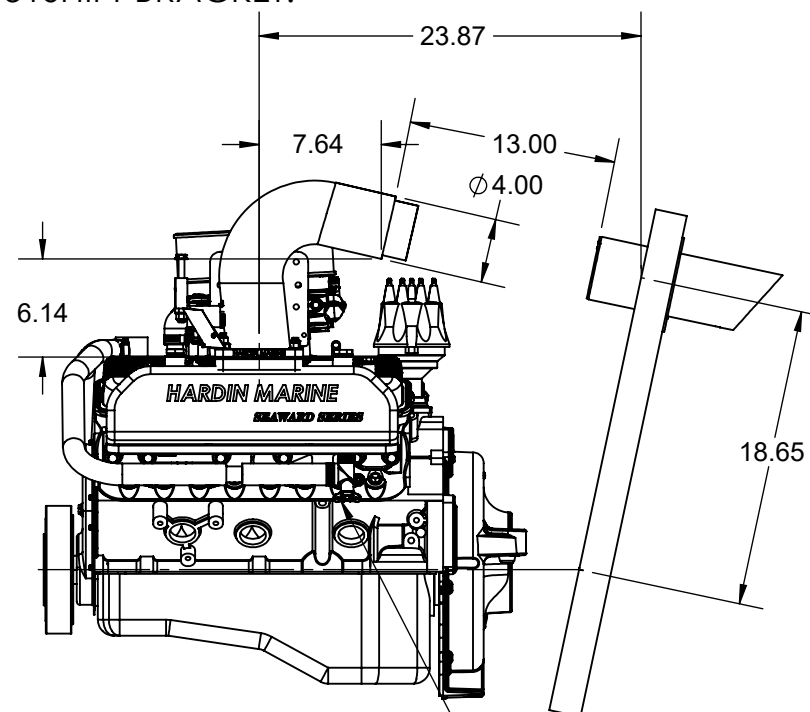
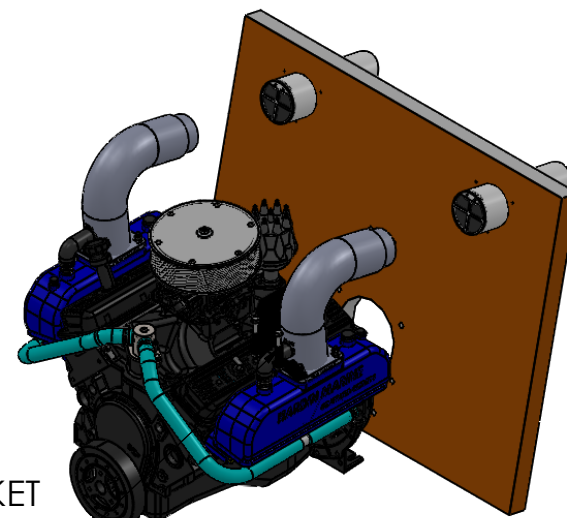
PART NO.  
620-38109  
620-38109Z

TITLE:  
SEAWARD SBC w/ 6" TALLER STD. RISER

[www.hardin-marine.com](http://www.hardin-marine.com)



SHOWN WITH OPTIONAL  
620-38050 OIL FILTER BRACKET  
& 620-38051 SHIFT BRACKET.



**CAUTION:**  
THE WATER INLET HAS TO BE TO THE BACK PORT OF  
THE EXHAUST MANIFOLDS. WE PROVIDE HOSE AND  
SLICE TO EXTENDED YOUR STOCK OEM HOSE.

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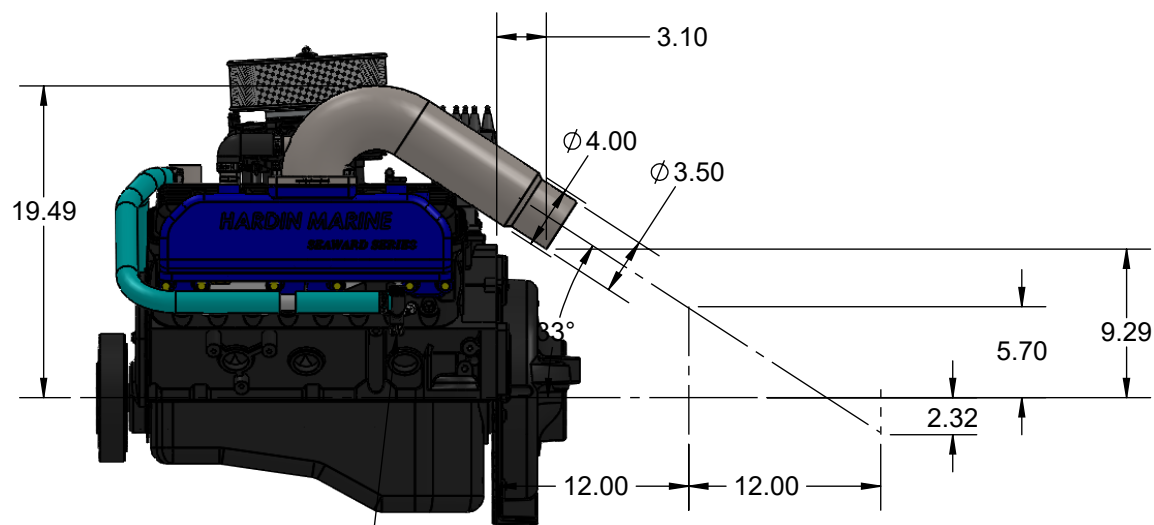
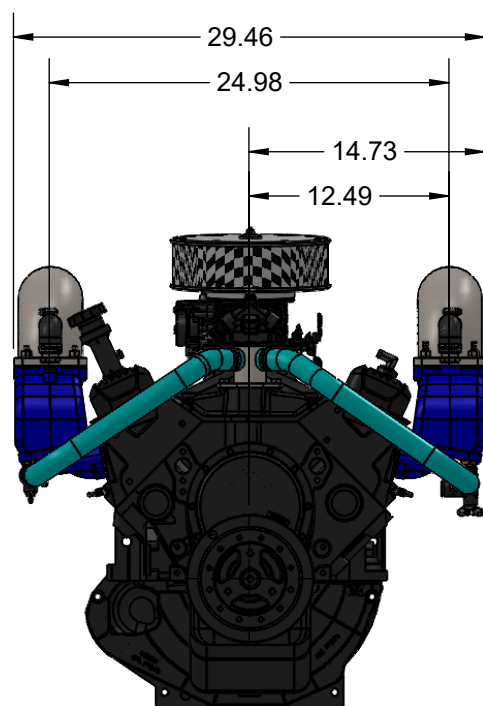
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PART NO.  
620-38116  
620-38116Z

TITLE:

SEAWARD SBC SKI BOAT EXHAUST

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**CAUTION:**  
THE WATER INLET HAS TO BE TO THE BACK PORT OF  
THE EXHAUST MANIFOLDS. WE PROVIDE HOSE AND  
SLICE TO EXTENDED YOUR STOCK OEM HOSE.

TITLE:

## SEAWARD SBC RISER INSTALL KIT

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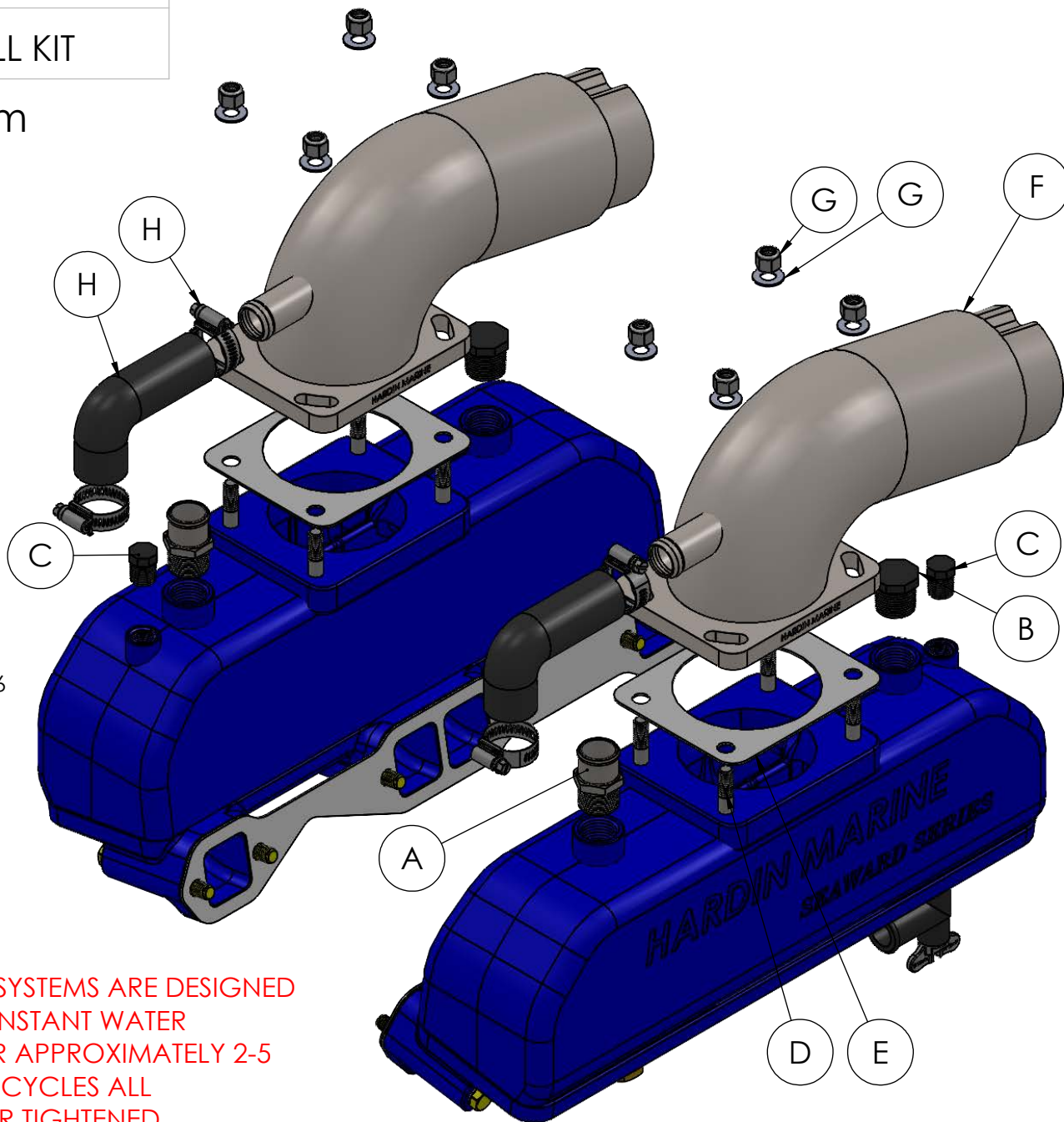
### INSTALLATION INSTRUCTIONS:

- 1) APPLY LIQUID THREAD SEALANT TO THE SUPPLIED 1" HOSE BARB FITTING, 3/8 & 3/4 NPT PIPE PLUGS.
- 2) USING 1-1/16 WRENCH, INSTALL 1" HOSE BARB FITTINGS INTO FRONT OF THE MANIFOLDS, FIG. A.
- 3) USING 1-1/8 WRENCH, INSTALL 3/4 NPT PIPE PLUGS INTO THE REAR OF THE MANIFOLDS, FIG. B.
- 4) USING 13/16 WRENCH, INSTALL 3/8 NPT PIPE PLUGS, FIG. C.
- 4) APPLY ANTI-SIEZE TO THE 8 STUDS, FIG. D.
- 5) SLIDE GASKETS OVER STUDS, FIG. E. DO NOT USE SEALANT ON THE GASKETS.
- 6) INSTALL RISERS, FIG. F.
- 7) IF YOU ARE INSTALLING 620-38051 SHIFT BRACKET AND 620-38050 OIL FILTER RELOCATION BRACKET, INSTALL THEM NOW. USE THE INSTRUCTIONS THAT CAME WITH THOSE KITS.
- 8) INSTALL WASHERS AND NUTS, FIG. F. USING 9/16 SOCKET, TORQUE TO 30 FT. LBS..
- 9) INSTALL JUMPER HOSE AND HOSE CLAMPS, FIG. H.

MANIFOLDS COME BLACK. SHOWN IN BLUE FOR INSTRUCTION PURPOSES.

CAUTION\*\* HARDIN MARINE MANIFOLD SYSTEMS ARE DESIGNED FOR USE ON ENGINES WITH FULL TIME CONSTANT WATER CIRCULATION AT ALL TIMES. NOTE\*\* AFTER APPROXIMATELY 2-5 HOURS USE OR NUMEROUS ENGINE HEAT CYCLES ALL HARDWARE MUST BE RETORQUED AND OR TIGHTENED.

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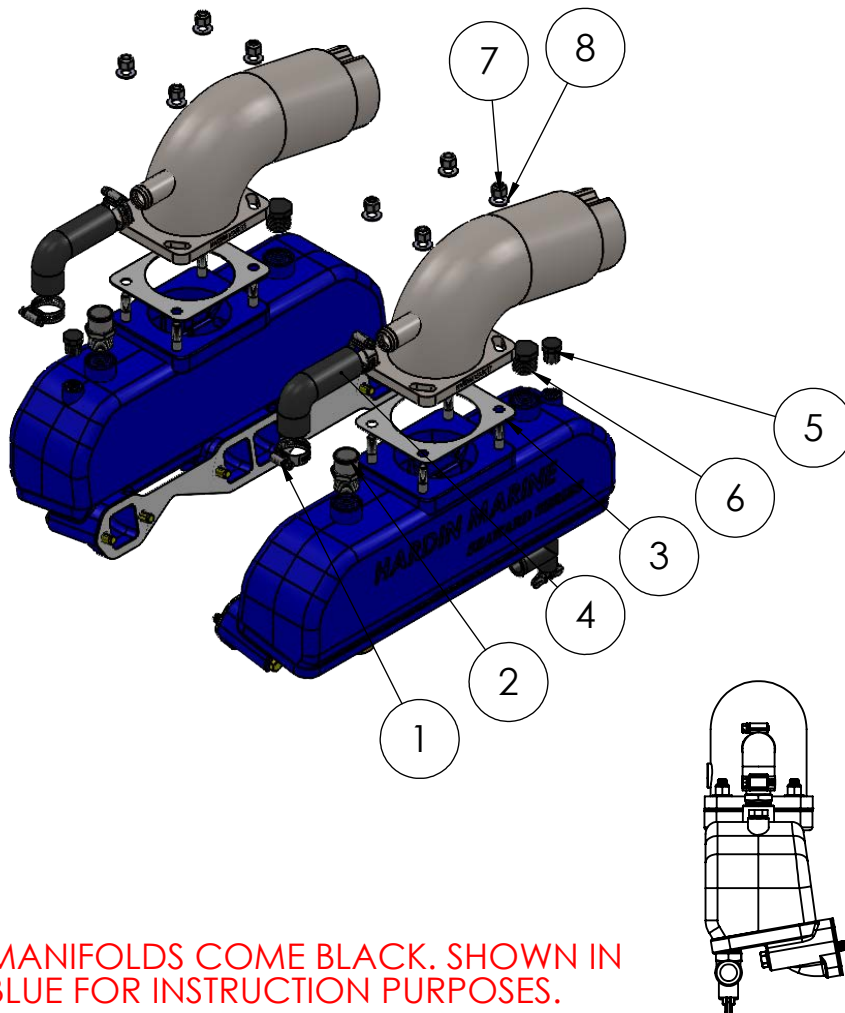
HARDIN MARINE 11 Industry Dr. Palm Coast, FL 32137  
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PART NO.  
620-38046

TITLE:

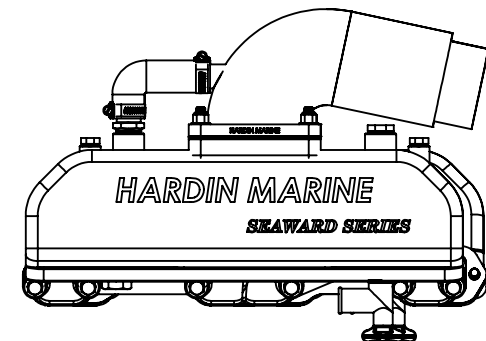
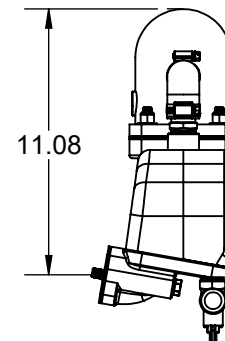
## SEAWARD SBC RISER INSTALL KIT

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MANIFOLDS COME BLACK. SHOWN IN  
BLUE FOR INSTRUCTION PURPOSES.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100-720-6316	HOSE CLAMP	4
2	540-222132	FITTING, 1" BARB	2
3	620-38006	RISER GASKET	2
4	620-38029	HOSE, RISER - PORT	2
5	625-2084	PLUG, PIPE 3/8NPT	2
6	625-2086	PLUG, PIPE - 3/4 NPT	2
7	90037CN-FNSS	NUT, 3/8-16	8
8	90037SA-STSS	WASHER, 3/8 SAE	8



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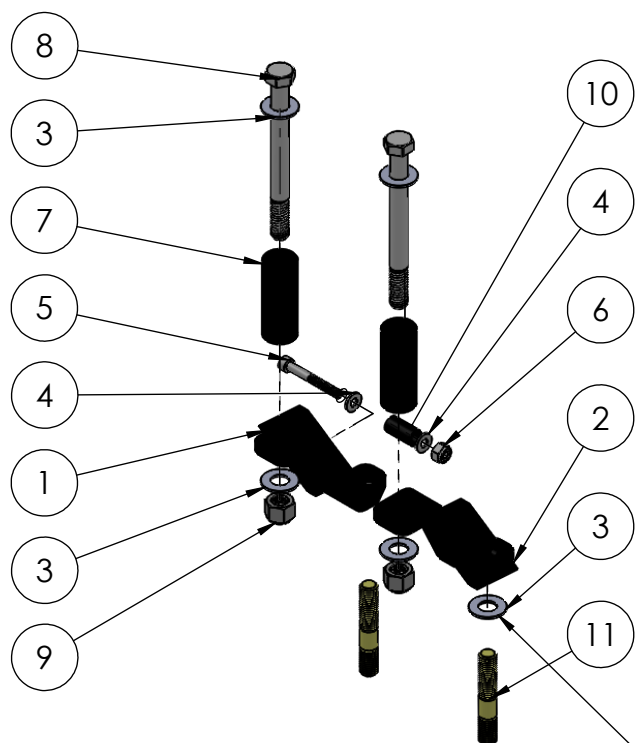
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PART NO.  
**620-38050**

TITLE:

SEAWARD OIL FILTER BRACKET-PARTS BREAKDOWN

[www.hardin-marine.com](http://www.hardin-marine.com)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	620-38052	BRKT, OIL FILTER - SEAWARD - STRB	1
2	620-32500R	BRKT, OIL FILTER - PORT	1
3	90037SA-STSS	WASHER, 3/8 SAE	5
4	90010AN-STSS	WASHER, #10 AN	2
5	90010C150SHS	BOLT	1
6	90010CN-FNSS	NUT, 10-24	1
7	620-32500C	SPACER, OIL FILTER RELOCATION	2
8	90037C400HHS	BOLT, 3/8	2
9	90037CN-FNSS	NUT, 3/8-16	2
10	620-38054	SPACER, OIL FILTER BRKT - SEAWARD	1
11	420-100	STUD, EXHAUST	2

**IMPORTANT NOTES:**

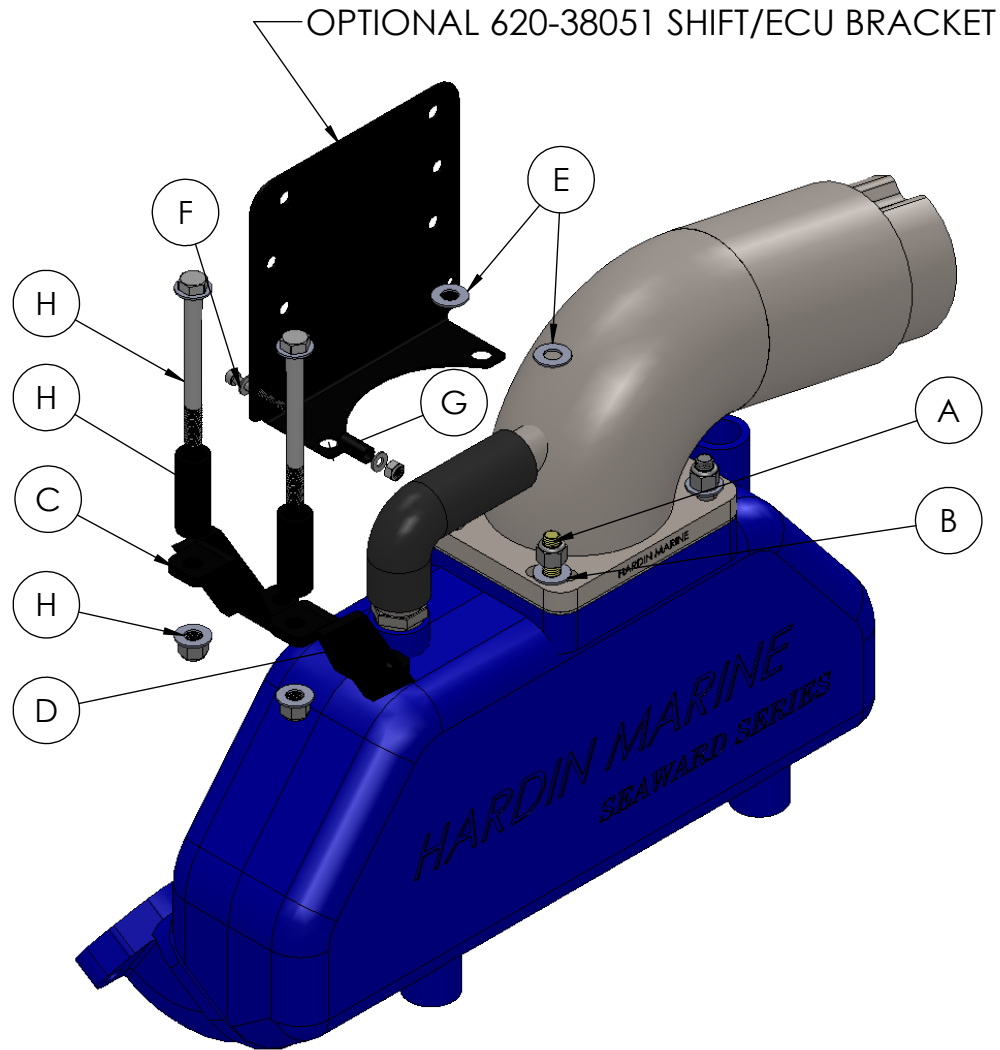
- 1) ALWAYS USE ANTI-SIEZE ON ALL BOLTS.
- 2) TORQUE #10 BOLTS TO 100 IN. LBS..
- 3) TORQUE 3/8 BOLTS TO 35 FT. LBS..
- 4) PARTS 4,5,6 & 10 ARE ONLY USED WHEN INSTALLING BRACKET WITH 620-38051 SHIFT/ECU BRACKET.
- 5) REPLACE THE EXISTING MANIFOLD STUDS WITH #11 STUDS.

THIS WASHER IS ONLY USED WHEN INSTALL  
THIS KIT AND 620-38051 SHIFT/ECU BRACKET



### SEAWARD OIL FILTER BRACKET-EXPLODED VIEW

[www.hardin-marine.com](http://www.hardin-marine.com)



### INSTALLATION INSTRUCTIONS:

1) SEE PRINT 620-38050 PARTS FOR EXACT LIST OF PARTS THAT COME IN THIS KIT.

2) ASSEMBLY SHOWN WITH OPTIONAL  
620-38051 SHIFT/ECU BRACKET. IF  
BRACKET IS NOT USED SKIP LINES 4,5,  
7,8 & 9.

3) REPLACE THE EXISTING 2 STUDS THAT ARE IN THE MANIFOLD WITH THE SUPPLIED LONGER STUDS, FIG. A.

4) INSTALL WASHER OVER STUD. SEE FIG. B. **THIS WASHER IS ONLY USED WITH THE 620-38051 BRACKET!**

5) INSTALL 620-38051 BRACKET OVER THE STUDS.

6) SLIDE 620-38052 BRACKET, FIG C, & 620-32500R BRACKET, FIG. D OVER THE 2 STUDS. APPLY ANTI-SIEZE TO THE STUDS. INSTALL WASHER AND NUT FROM HEADER INSTALL KIT, FIG E. DO NOT TIGHTEN NUTS.

7) INSTALL #10BOLT WITH WASHER  
THRU THE 620-38051 BRACKET, FIG. F.

8) POSITION 620-38054, FIG G.  
SPACER BETWEEN THE 620-38051 &  
620-38052 BRACKET.

9) APPLY ANTI-SIEZE TO THE BOLT.  
INSTALL #10 NUT AND WASHER ON  
THE INSIDE OF 620-38052 BRACKET.  
TORQUE TO 100 IN. LBS..

10) INSTALL FACTORY OIL FILTER BRACKET USING THE LONG 3/8 BOLTS, WASHERS, NUTS & SPACERS. SEE FIG. H.

11) NOW TORQUE ALL THE 3/8 NUTS,  
TO 35 FT. LBS..

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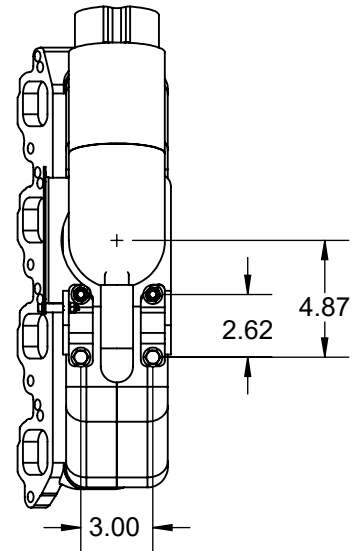
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PART NO.  
620-38050

TITLE:

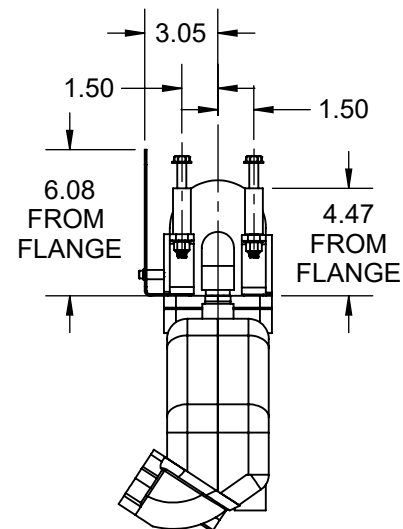
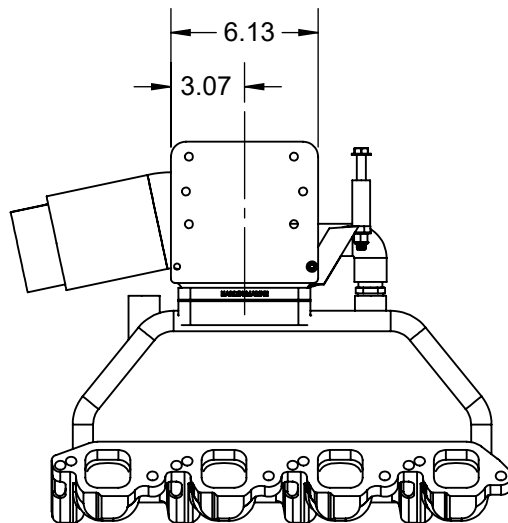
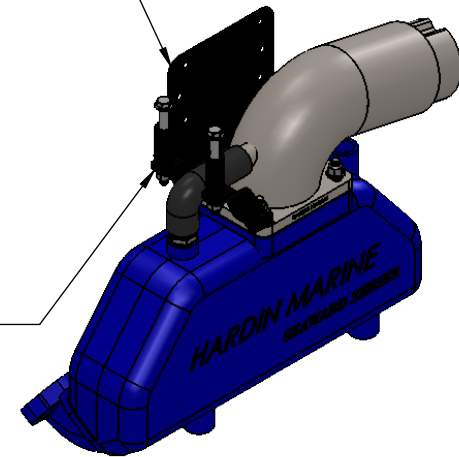
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