

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

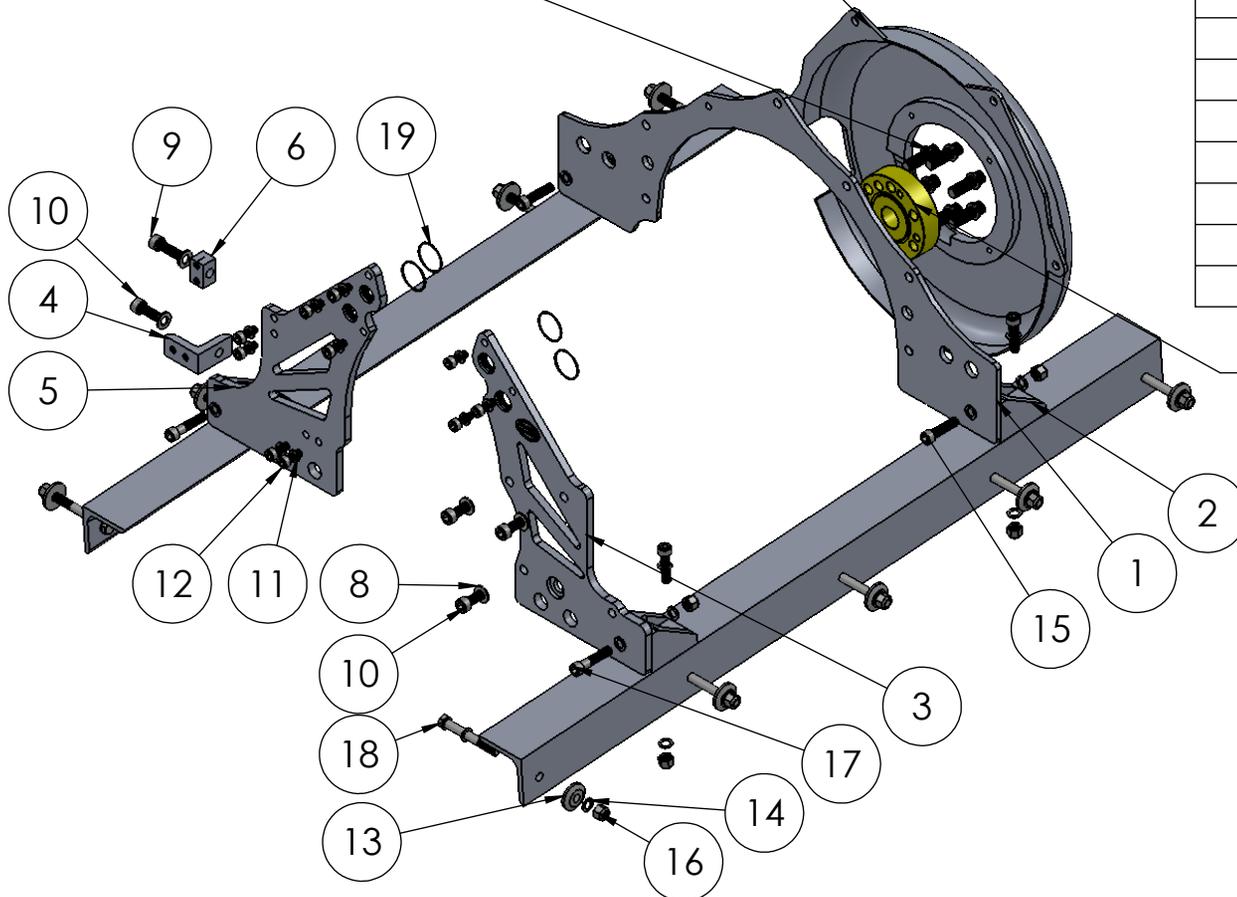
PART NO.
625-8536

TITLE:
LS ENGINE MOUNT RAIL KIT

www.hardin-marine.com

SHOWN WITH OPTIONAL
620-10100 BELLHOUSING

SHOWN WITH OPTIONAL PTO BOLTS:
500-2156 FOR 1310
500-2158 FOR 1350



SHOWN WITH OPTIONAL PTO ADAPTER:
500-2000 1310 FLEX PLATE
500-2005 1310 FLYWHEEL
500-2010 1350 FLEX PLATE
500-2015 1350 FLYWHEEL

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	625-8813	MOUNT, REAR - LS ENGINE	1
2	620-52375	MOUNT PAD	4
3	625-8537	MOUNT, FRONT LS - PORT	1
4	625-8539	PAD, STRB LS FRONT - LOWER	1
5	625-8538	MOUNT, FRONT LS - STRB	1
6	625-8540	PAD,STRB LS FRONT - UPPER	1
7	625-8542	RAIL, JET BOAT MOUNT	2
8	900M10AN-STSS	WASHER, M10	5
9	900M10C030SHS	BOLT, SHCS, M10x 30	1
10	900M10C025SHS	BOLT, SHCS, M10x 25	4
11	90031AN-STSS	WASHER, 5/16 AN	10
12	900M08C020SHS	BOLT.SHCS, M8 x 20	10
13	125-377211	WASHER, STRINGER - 3/8	10
14	90037AN-STSS	WASHER - 3/8 AN	28
15	90037C150SHS	BOLT, SHCS, 3/8-16x1.50	6
16	90037CN-FNSS	NUT, 3/8-16	18
17	90037C175SHS	BOLT	2
18	90037C300HHS	BOLT, HHCS, 3/8-16x3.00	10
19	625-1026	O-RING	4

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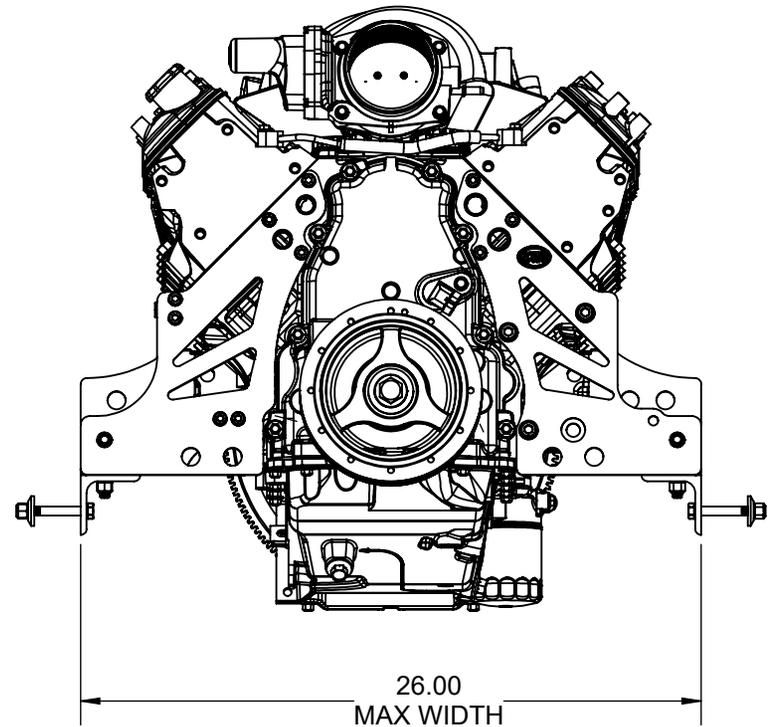
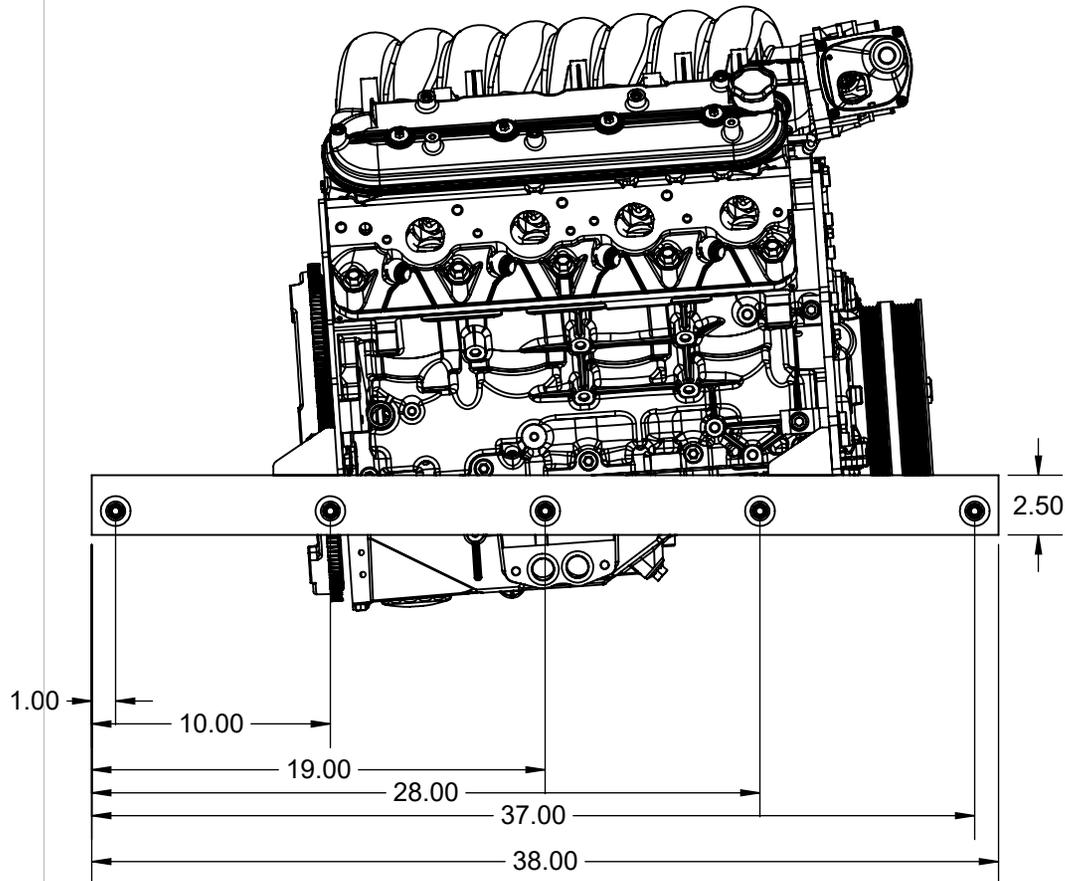
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PART NO.
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TITLE:

LS ENGINE MOUNT DIMENSIONS

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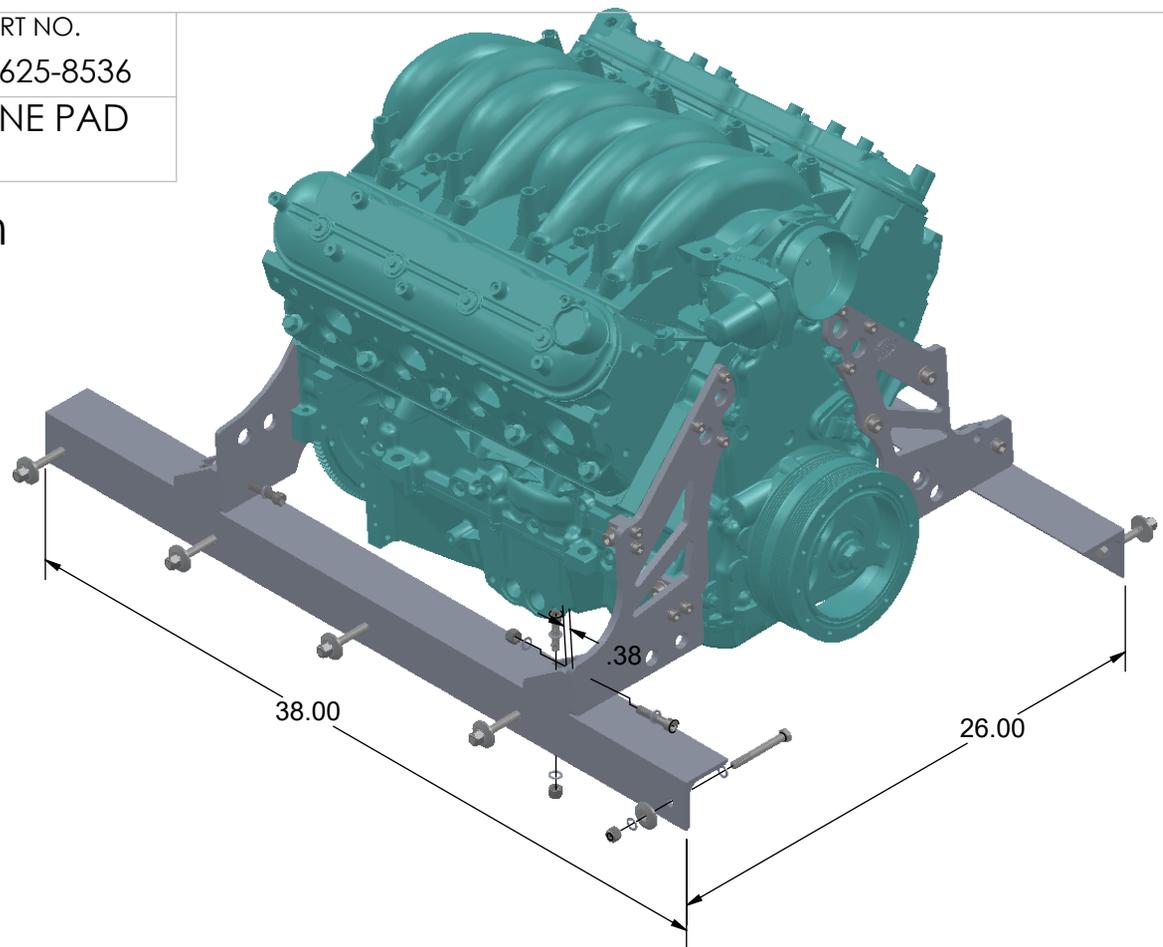


HARDIN 11 Industry Dr. Palm Coast, FL 32137
MARINE 386-445-2500 / FAX 386-445-1122

PART NO.
625-8536

TITLE: LS ENGINE MOUNT-RAIL AND ENGINE PAD
INSTRUCTIONS

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The Hardin marine LS billet aluminum rail kit is design with a 3 degree difference between the rails and the mounted engine plates. Most jet drives are installed at 4 degrees down in the rear and this difference will put the correct bind to the standard style H bar assembly. This degree is just given to provide a guideline and is not indicative of every installation. The rails can be installed parallel with the top of the stringers (the rails do not have match to the top stringers) just parallel with the top. If you are planning to run a different engine angle than the design then you can alter by your own design.

It is best to level the boat front to rear and side to side before starting any engine installation. To find the engine mounting location you will need to have the flexplate or flywheel as well and the PTO (ex. Part 500-2000) and H bar assembly (ex. Part 500-0844). With these parts and the engine mounts bolted in place on the engine slide the coupler onto the pump shaft and move the engine back until it stops at the end of the spline. The coupler will slide onto the shaft app. 1.750" when it bottoms out move the engine forward .100" (minimum spine engagement is 1.375") or so to not bottom out the coupler. The crankshaft center should be close to the same height as the pump shaft center as possible to avoid H bar binding. The rails are mounted to the stringers by drilling thru the stringers and use the 5 3/8" mounting bolts per side. Once the rails are attached and the engine is sitting in the correct location drill and mount the mounting pads to the motor plates and rails.

Follow the drawings for the correct installation of the motor plates and sealing o-rings to the engine block. Reminder that the water inlet and outlets on the engine plates are a -10 AN o-ring port and NOT a npt pipe thread.

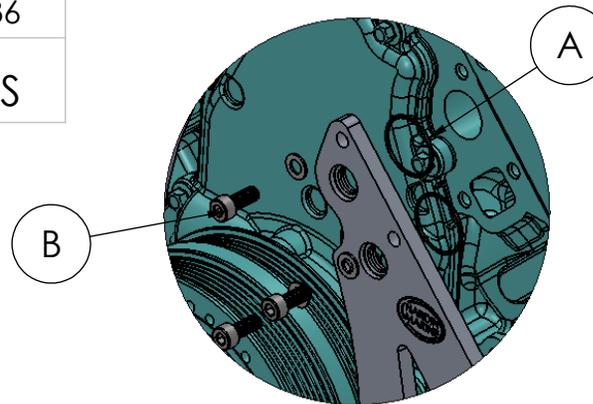
** Always remember to measure multiple times and from multiple locations as a boats hull is not always square.

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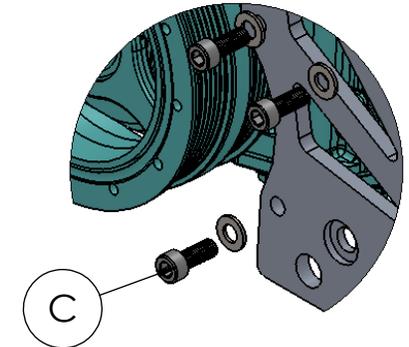
PART NO.
625-8536

TITLE:
LS ENGINE MOUNT-PORT INSTRUCTIONS

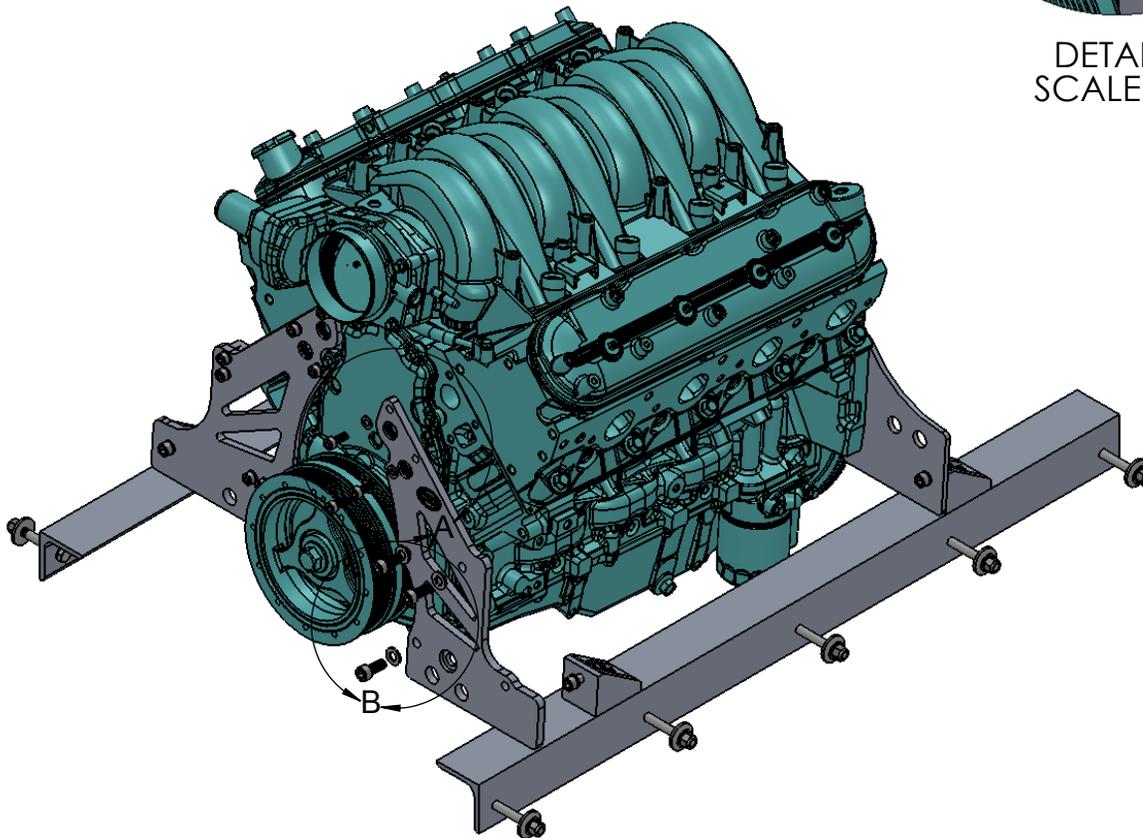
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DETAIL A
SCALE 1 : 4



DETAIL B
SCALE 1 : 4

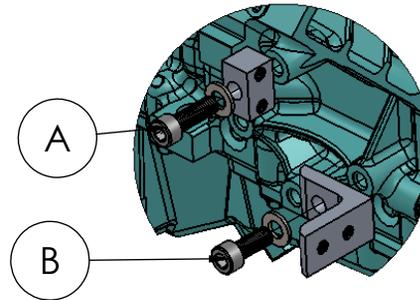


INSTALLATION INSTRUCTIONS:

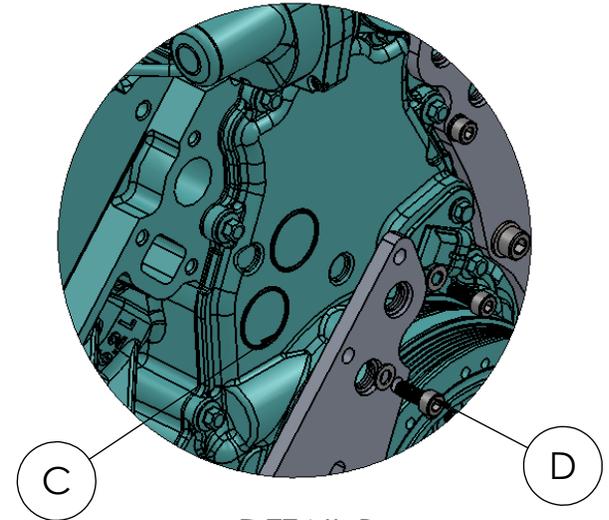
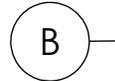
- 1) DETAIL A SHOWS THE (2) 625-1026 O-RINGS. APPLY GREASE AND INSTALL INTO THE BACK SIDE OF THE MOUNTING PLATE, FIG. A.
- 2) APPLY LOCTITE TO THE (3) 8MM BOLTS, FIG B AND INSTALL MOUNT TO THE ENGINE. DO NOT TORQUE YET.
- 3) APPLY LOCTITE TO THE (3) 10MM x 25MM LONG BOLTS AND INSTALL INTO THE ENGINE MOUNT. TORQUE TO 30-25 FT. LBS..
- 4) NOW TORQUE THE 8MM BOLTS TO 20-25 FT. LBS..

TITLE:
LS ENGINE MOUNT-STRB INSTRUCTIONS

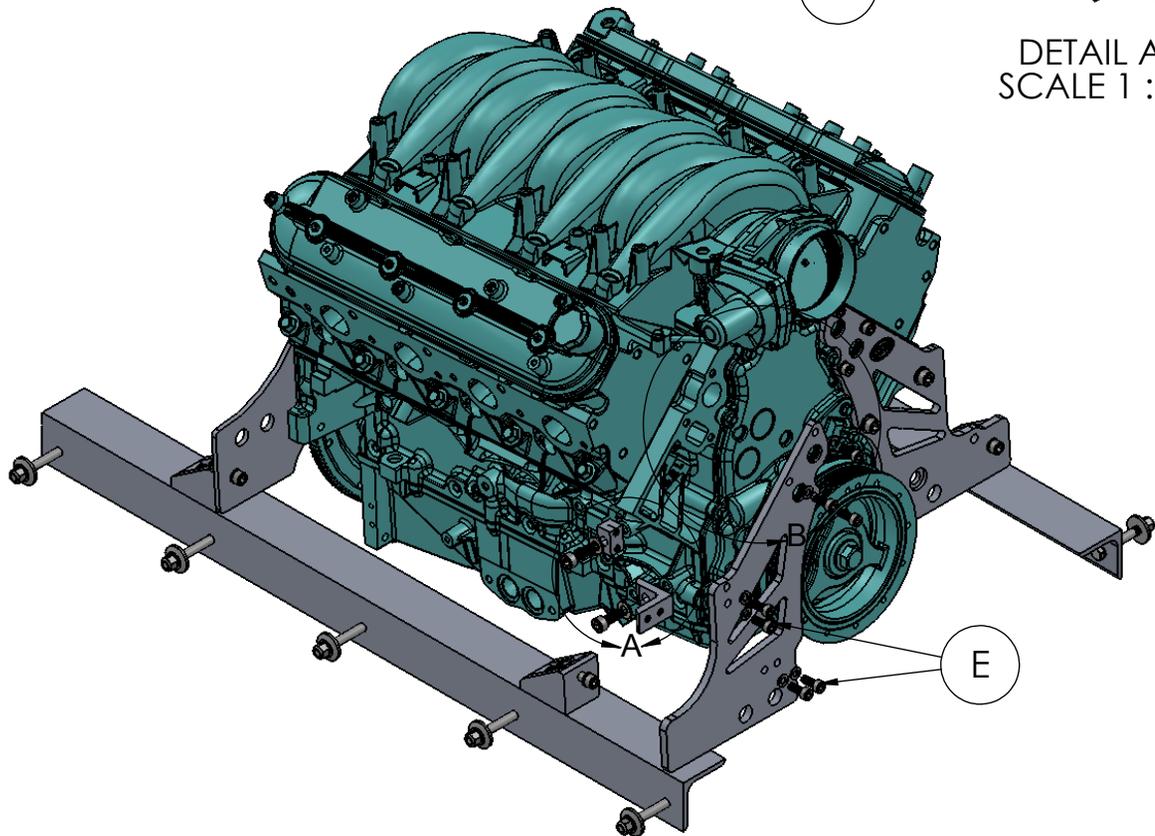
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DETAIL A
SCALE 1 : 4



DETAIL B
SCALE 1 : 4



INSTALLATION INSTRUCTIONS:

- 1) DETAIL A SHOWS MOUNTING POSITION FOR THE 2 STABILIZING BRACES.
- 2) THE UPPER BRACE USES 10MM x 30MM LONG BOLT, FIG A. THE LOWER BRACE USES 10MM x 25MM LONG BOLT, FIG B. APPLY LOCTITE TO BOLTS AND LIGHTLY TIGHTEN THE BOLTS. DO NOT TORQUE YET.
- 3) DETAIL B SHOWS THE (2) 625-1026 ORINGS. APPLY GREASE AND INSTALL INTO THE BACK SIDE OF THE MOUNTING PLATE, FIG C.
- 4) APPLY LOCTITE TO THE (3) 8MM BOLTS, FIG D AND INSTALL MOUNT TO THE ENGINE. TORQUE TO 20-25 FT. LBS..
- 5) APPLY LOCTITE TO THE (4) 8MM BOLTS, FIG E AND INSTALL THRU THE MOUNT INTO THE BRACES THAT WERE INSTALLED ON THE BLOCK. TORQUE TO 20-25 FT. LBS..
- 6) NOW TORQUE THE 10MM BRACE BOLTS TO 30-35 FT. LBS..

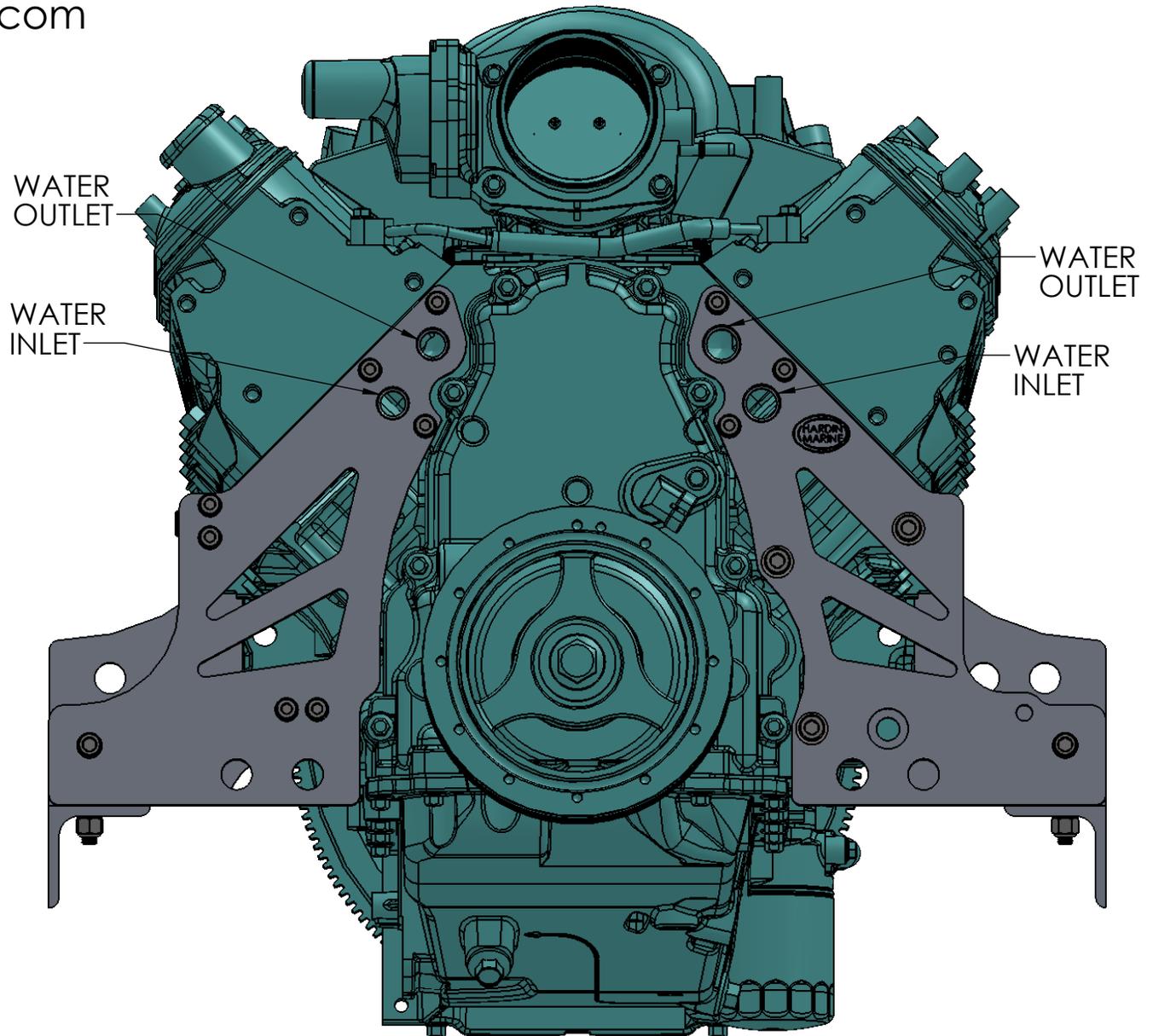
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PART NO.
625-8536

TITLE:
LS ENGINE MOUNT-PLUMBING DIAGRAM

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ENGINE MOUNTS HAVE
DUAL WATER INLETS
AND OUTLETS, AS
SHOWN. THESE ARE -10
AN O-RING PORTS.



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