

HARDIN
MARINE

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

PART NO.
625-8150/
625-8151

TITLE:

STANDARD DRIVE KIT - STEP 1

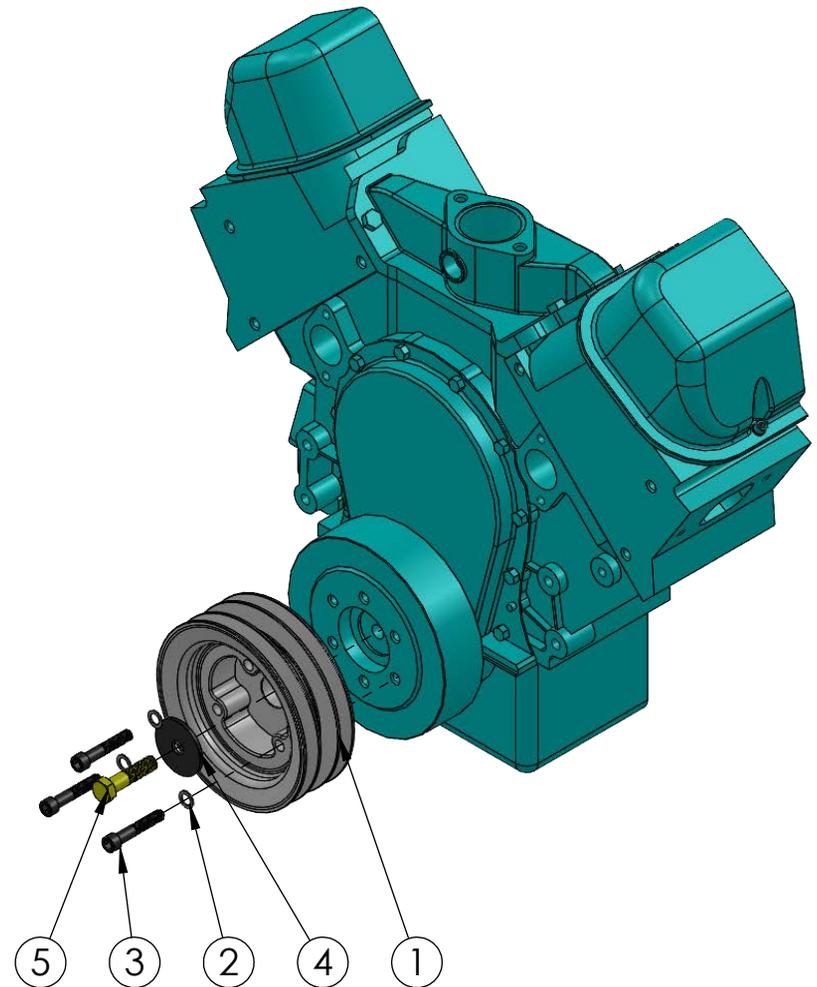
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	421-215	PULLEY, BBC 3 GROOVE	1
2	90037AN-STSS	WASHER, 3/8 AN	3
3	90037C200SH8	BOLT, 3/8-16x2.00	3
4	90050FW-THST	WASHER, DAMPER BOLT	1
5	90050F200HH8	BOLT, 1/2-20 x 2.00	1

ASSEMBLY IS USED FOR 625-8250 & 625-8251 DRIVE KITS.

INSTALLATION INSTRUCTIONS:

- 1) MAKE SURE FACE OF DAMPER, FIG A IS 3.095 FROM FRONT OF ENGINE BLOCK, FIG B.
- 2) KIT IS SUPPLIED WITH (3) 3/8-16 & 3/8-24 x 1-1/2 BOLTS #3, TO MOUNT CRANK PULLEY TO DAMPER. APPLY LOCTITE TO BOLTS. INSTALL INTO THE #1 CRANK PULLEY WITH WASHERS. USING 5/16 HEX SOCKET TORQUE TO 35 FT. LBS..
- 3) APPLY LOCTITE TO #5 1/2-20x 2" BOLT. INSTALL WITH WASHER INTO CENTER OF THE CRANK PULLEY. USING 3/4 SOCKET, TORQUE TO 55-60 FT. LBS..



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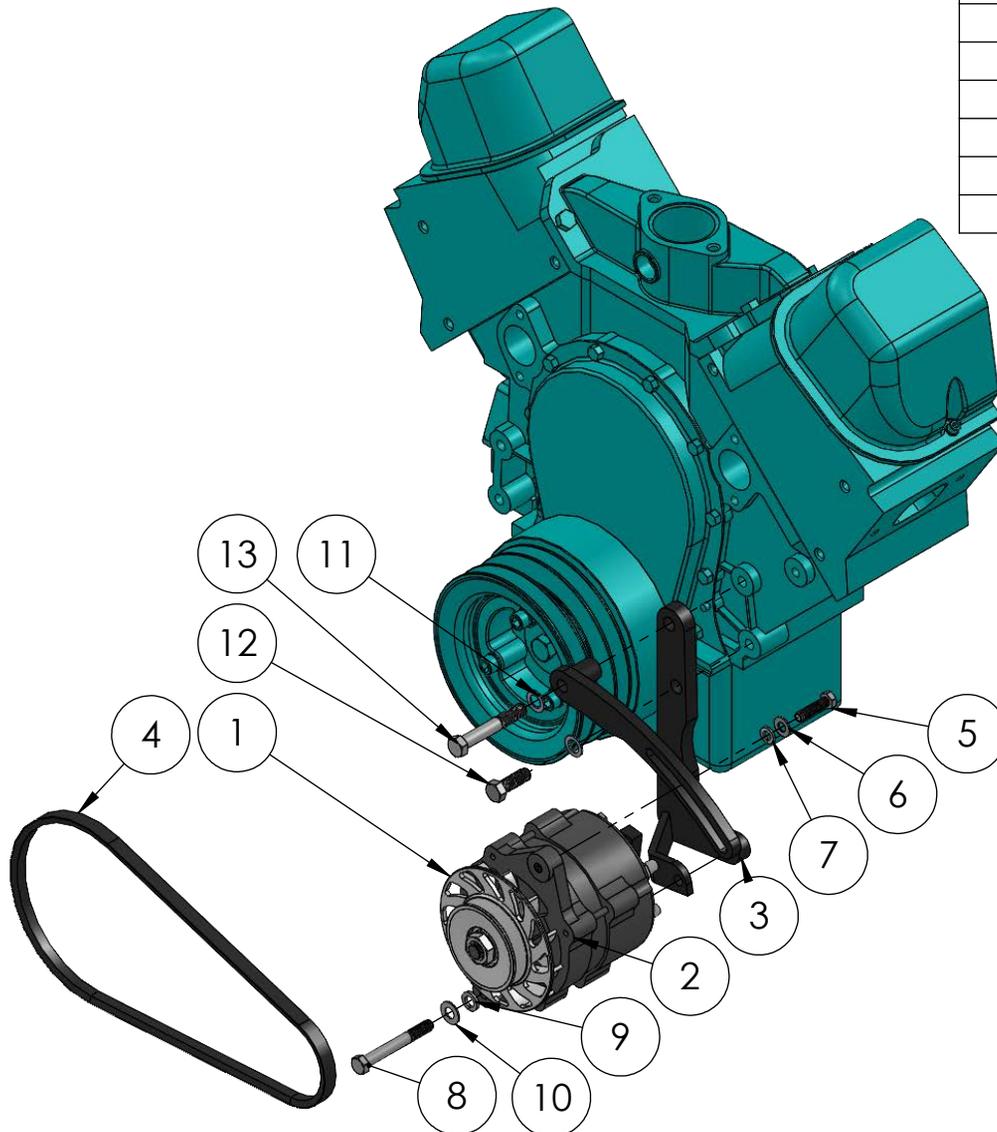
PART NO.
625-8150/
625-8151

TITLE:

STANDARD DRIVE KIT - STEP 2

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	421-216	PULLEY, MANDO ALTERNATOR	1
2	620-3159M	65 AMP MANDO ALTERNATOR	1
3	620-910030	LOW MOUNT ALTERNATOR BRKT	1
4	625-2335	V-BELT	1
5	90031C125HHS	BOLT, 5/16-18x1.25	1
6	90031SA-STSS	WASHER, 5/16 SAE	1
7	90031SL-STSS	WASHER, 5/16 LOCK	1
8	90037C300HHS	BOLT, HHCS, 3/8-16x3.00	1
9	90037SL-STSS	WASHER, LOCKING - 3/8	1
10	90037SA-STSS	WASHER, 3/8 SAE	1
11	90043AN-STSS	WASHER, 7/16AN	2
12	90043C125HHS	BOLT, 7/16-14 x 1.25	1
13	90043C275HHS	BOLT, 7/16-14x2.75	1



ASSEMBLY IS USED FOR 625-8150 & 625-8151 DRIVE KITS:

- 1) APPLY LOCTITE TO ALL BOLTS.
- 2) INSTALL #12 BOLT WITH #11 WASHER INTO THE LOWER HOLE IN ALTERNATOR BRACKET AND INSTALL INTO THE LOWER HOLE IN THE BLOCK. USING, 5/8 SOCKET, TORQUE BOLT TO 40 FT. LBS..
- 3) INSTALL #13 BOLT WITH #11 WASHER INTO THE ALTERNATOR BRACKET SWING ARM. SNUG BOLT.
- 4) POSITION THE WIDE PART OF THE ALTERNATOR INTO THE FIXED PART OF THE ALTERNATOR BRACKET.
- 5) INSTALL #8 BOLT WITH #9 & 10 WASHER. SNUG BOLT.
- 6) INSTALL #5 BOLT WITH #6 & 7 WASHER THRU THE BACK SIDE OF THE SWING ARM AND SCREW INTO THE ALTERNATOR SNUG BOLT.
- 7) SLIDE BELT INTO THE GROOVE CLOSEST TO THE DAMPER AND AROUND THE ALTERNATOR. PULL ALTERNATOR TIGHT.
- 8) USING 5/8 SOCKET, TORQUE #13 BOLT TO 40 FT. LBS..
- 9) USING 9/16 SOCKET, TORQUE #8 BOLT TO 30 FT. LBS..
- 10) USING 1/2 SOCKET, TORQUE #5 BOLT TO 20 FT. LBS..
- 11) SEE ALTERNATOR WIRING INSTRUCTIONS.

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PART NO.
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TITLE:

STANDARD DRIVE KIT - STEP 3

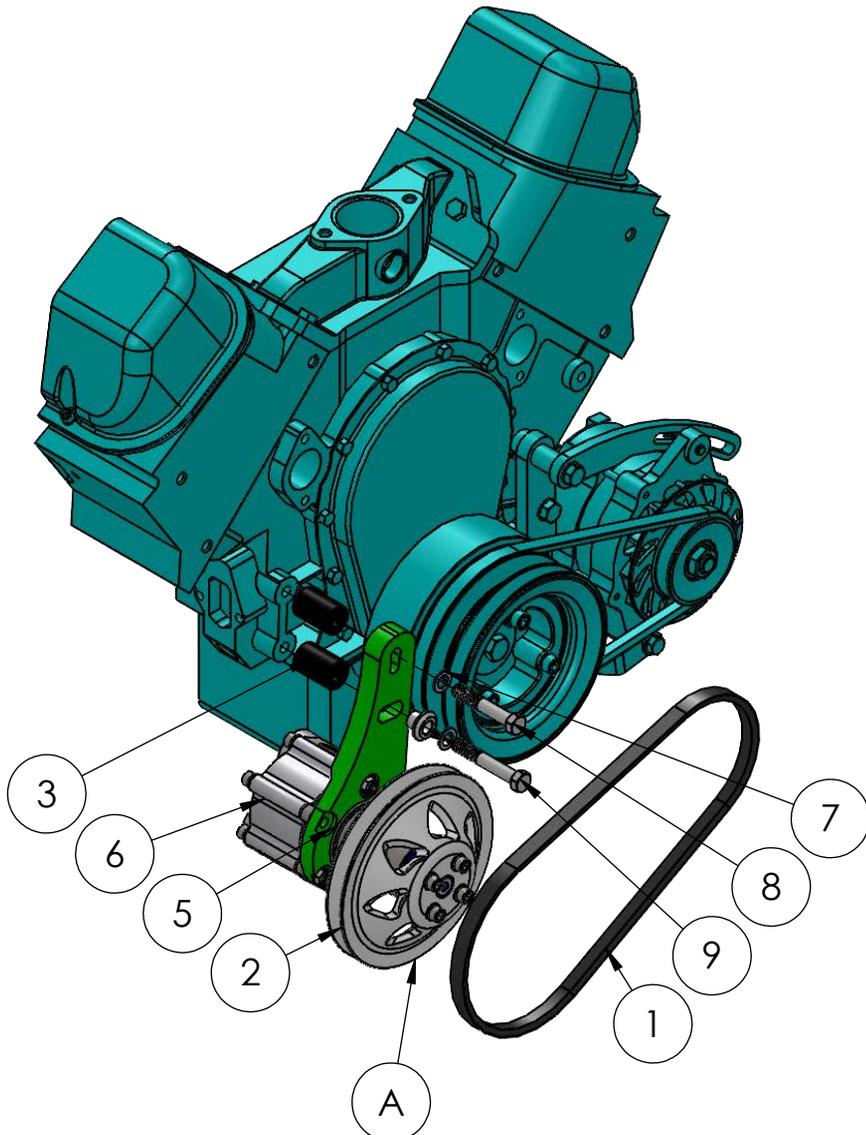
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	625-2330	V-BELT, SEA PUMP	1
2	625-4024	PULLEY, SEA PUMP - SINGLE GRV	1
3	625-4040	SPACER, SEA PUMP TO X-OVER	2
4	625-4041	WASHER, HAT	1
5	625-4098	BRACKET, SEA PUMP	1
6	625-4110	SEA PUMP	1
7	90043AN-STSS	WASHER , 7/16AN	4
8	90043C250HHS	BOLT, HHCS, 7/16-14x2.50	1
9	90043C275HHS	BOLT, 7/16-14x2.75	2

ASSEMBLY IS USED FOR 625-8250 & 625-8251 DRIVE KITS.

INSTALLATION INSTRUCTIONS:

- 1) SEA PUMP IS PREASSEMBLED AS SHOWN IN FIG A. THE BRACKET IS INSTALLED ON THE PUMP. SEA PUMP PULLEY IS ALSO INSTALLED.
- 2) INSTALL #3 SPACERS INTO THE POCKETS ON THE BACK SIDE OF THE SEA PUMP BRACKET.
- 3) WITH THE 2 SPACERS POSITIONED BETWEEN THE BLOCK AND THE SEA PUMP BRACKET, INSTALL #8 BOLT & #7 WASHER INTO THE UPPER BOLT HOLE. USING 5/8 SOCKET LIGHTLY SNUG THE BOLT.
- 4) INSTALL #4 WASHER, #9 BOLT AND #7 WASHER INTO THE LOWER BOLT HOLE.
- 5) INSTALL V-BELT AND PULL TIGHT. TORQUE BOLTS TO 40 FT. LBS..



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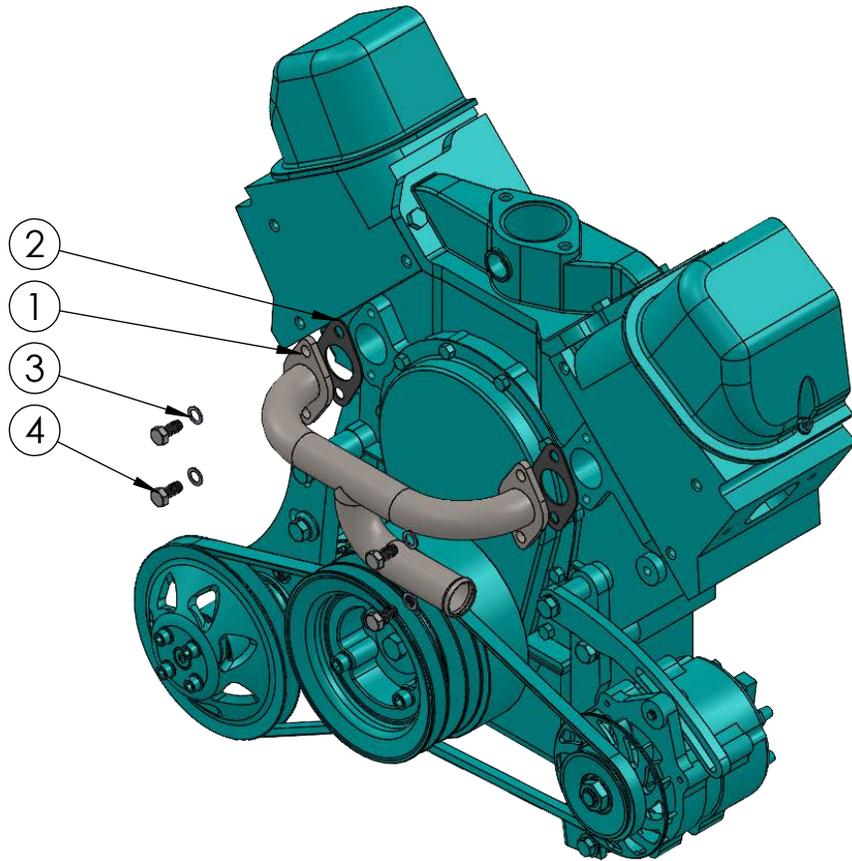
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PART NO.
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625-8151

TITLE:

STANDARD DRIVE KIT - STEP 4

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	410-1502	BBC PORT ENTRY CROSSOVER	1
2	620-05112K	GASKET, BBC WATER INLET	2
3	90037AN-STSS	WASHER, 3/8 AN	4
4	90037C075HHS	BOLT, 3/8-16 x .75	4

ASSEMBLY IS USED FOR 625-8250 & 625-8251 DRIVE KITS.

INSTALLATION INSTRUCTIONS:

- 1) APPLY BRUSH TACH TO THE #2 GASKETS.
- 2) INSTALL #1 CROSSOVER TO THE BLOCK USING #3 WASHERS AND #4 BOLTS. USE 9/16 SOCKET AND TORQUE BOLTS TO 30 FT. LBS..

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PART NO.

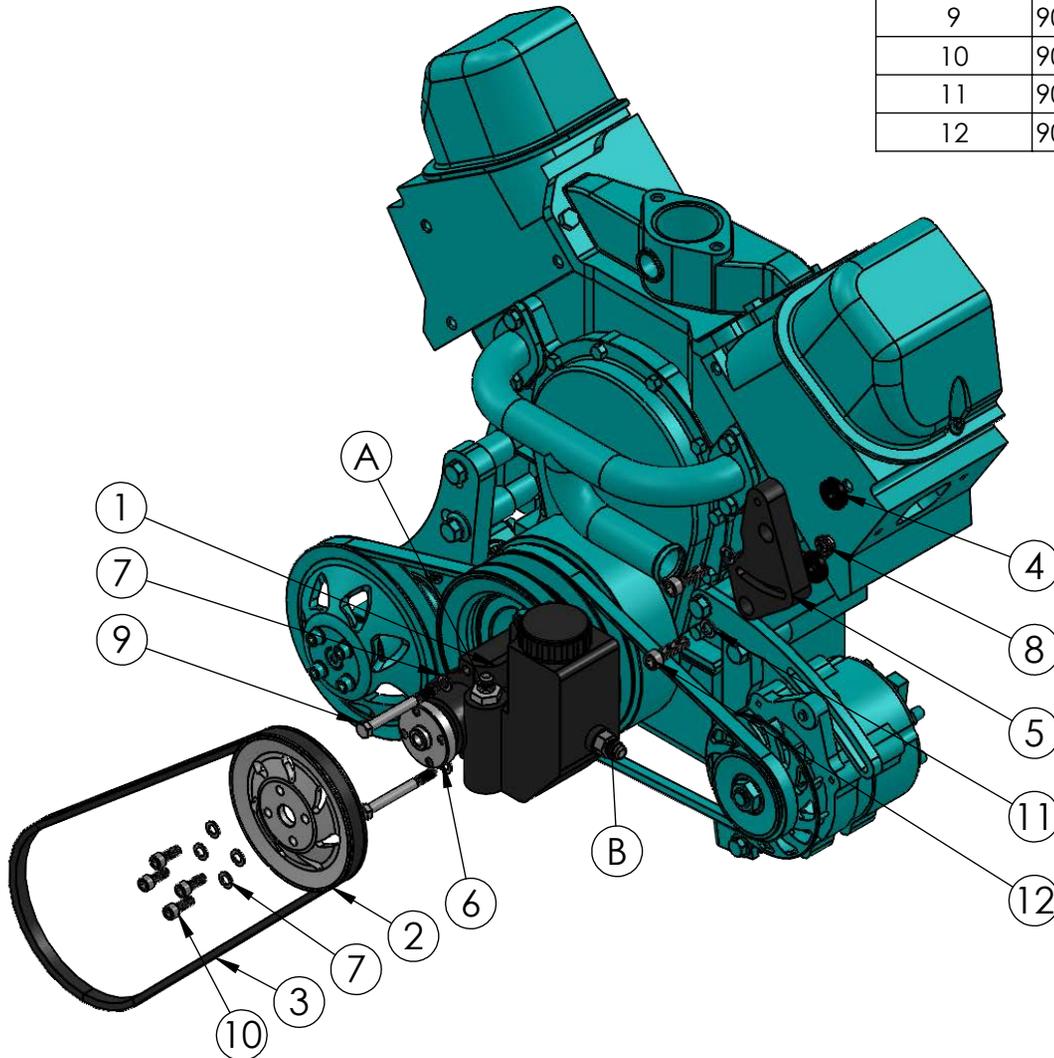
625-8151

TITLE:

STANDARD DRIVE KIT - STEP 5

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	135-802226	PUMP, POWER STEERING	1
2	421-205	PULLEY	1
3	625-2440	BELT, HEAD MNT POWER STEERING PUMP	1
4	625-4039	SPACER, 7/8x7/16x.240	2
5	625-8104	BRACKET, HEAD MOUNT POWER STEERING	1
6	625-8107	HUB, POWER STEERING PUMP	1
7	90031AN-STSS	WASHER, 5/16 AN	6
8	90031CS-HNSS	NUT, SERRATED, 5/16-18	1
9	90031C300HHS	BOLT, 5/16-18x3.00	2
10	90031F075SHS	BOLT, 5/16-18x3/4	4
11	90037AN-STSS	WASHER, 3/8 AN	2
12	90037C125SHS	BOLT, SHCS, 3/8-16x1.25	2



ASSEMBLY IS USED FOR 625-8251 DRIVE KIT.

INSTALLATION INSTRUCTIONS:

- 1) POWER STEERING PUMP COMES WITH HUB AND PULLEY INSTALLED.
- 2) SLIDE #8 NUT INTO THE BACK OF #5 BRACKET.
- 3) APPLY LOCTITE TO #12 BOLTS. INSTALL BOLTS AND #11 WASHERS INTO BRACKET.
- 4) USING #4 SPACERS BETWEEN BRACKET AND HEAD, INSTALL BRACKET. USING 5/16 ALLEN SOCKET AND TORQUE TO 30 FT. LBS..
- 5) USING #9 BOLT AND #7 WASHER INSTALL POWER STEERING PUMP. THE LOWER BOLT SCREWS INTO #8 NUT. SNUG BOLTS.
- 6) INSTALL V-BELT, PULL BELT TIGHT. USING A 1/2 CROWS FOOT TORQUE BOLTS TO 20 FT. LBS..
- 7) FIG. A SHOWS -6 AN HIGH PRESSURE OUTLET. FIG. B SHOWS -6 AN LOW PRESSURE RETURN. SEE STEP 8 FOR PLUMBING.

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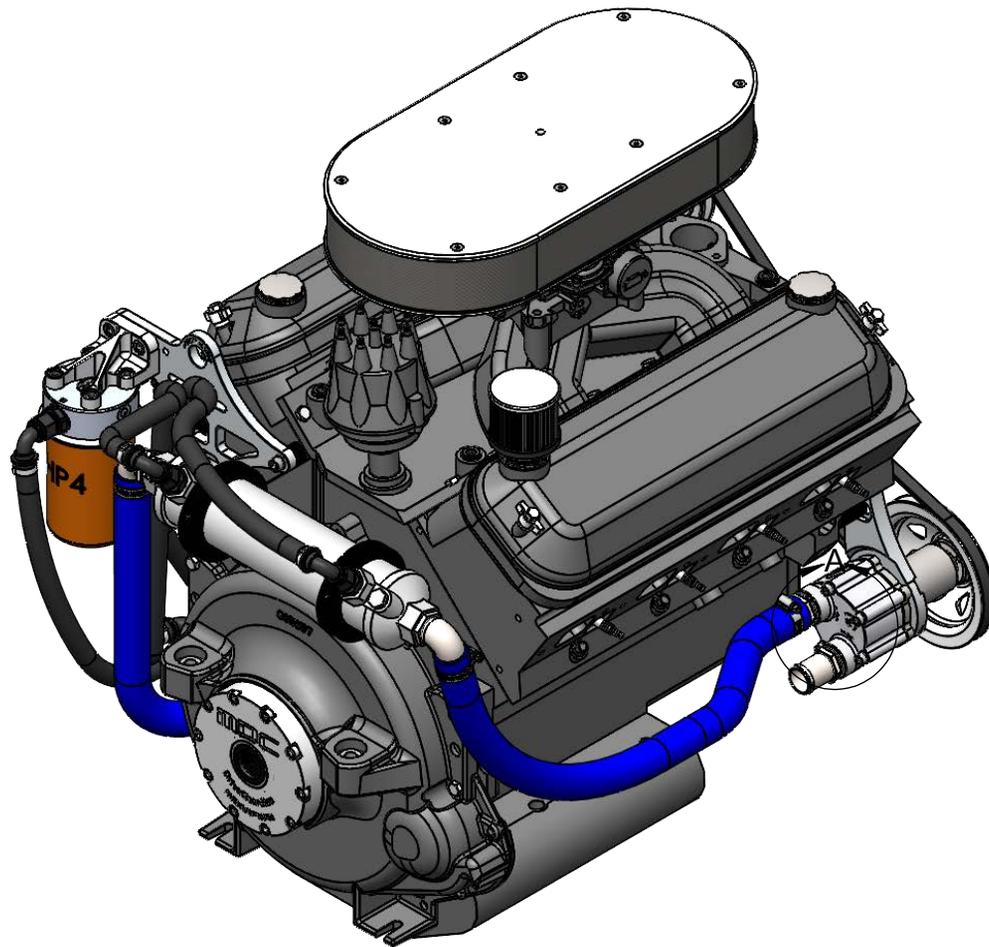
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PART NO.
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TITLE:

STANDARD DRIVE KIT - STEP 6

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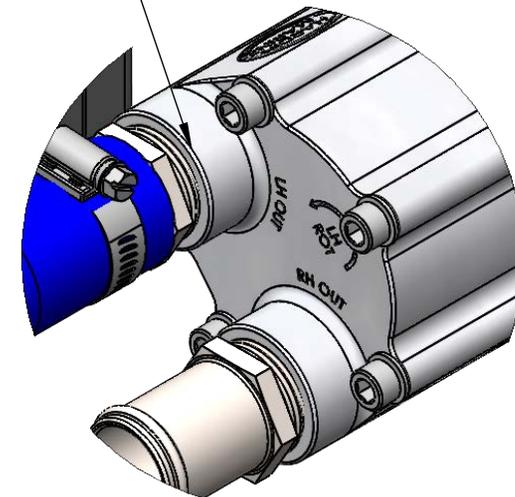


ASSEMBLY IS USED FOR 625-8150 & 625-8151 DRIVE KITS.

INSTALLATION INSTRUCTIONS:

- 1) SINGLE STAGE SEA PUMP PLUMBING SHOWN.
- 2) FITTINGS ARE NOT SUPPLIED WITH THE KIT. DRAWING SHOWN WITH 540-222151.
- 3) ON THE BACKSIDE OF THE SEA PUMP. BUNG MARKED RH OUT IS THE FRESH WATER INLET. LH OUT IS THE FRESH WATER EXIT.
- 4) RUN EITHER 1-1/4 OR -24 HOSE, SHOWN IN BLUE, OUT OF THE PUMP.
- 5) PICTURE SHOWS TYPICAL STARBOARD SIDE WATER PLUMBING. OUT IS THE PUMP TO THE OIL COOLER. YOU CAN ALSO INSTALL A FUEL COOLER INLINE BETWEEN THE PUMP AND OIL COOLER.

LH OUT



DETAIL A
SCALE 1 : 2

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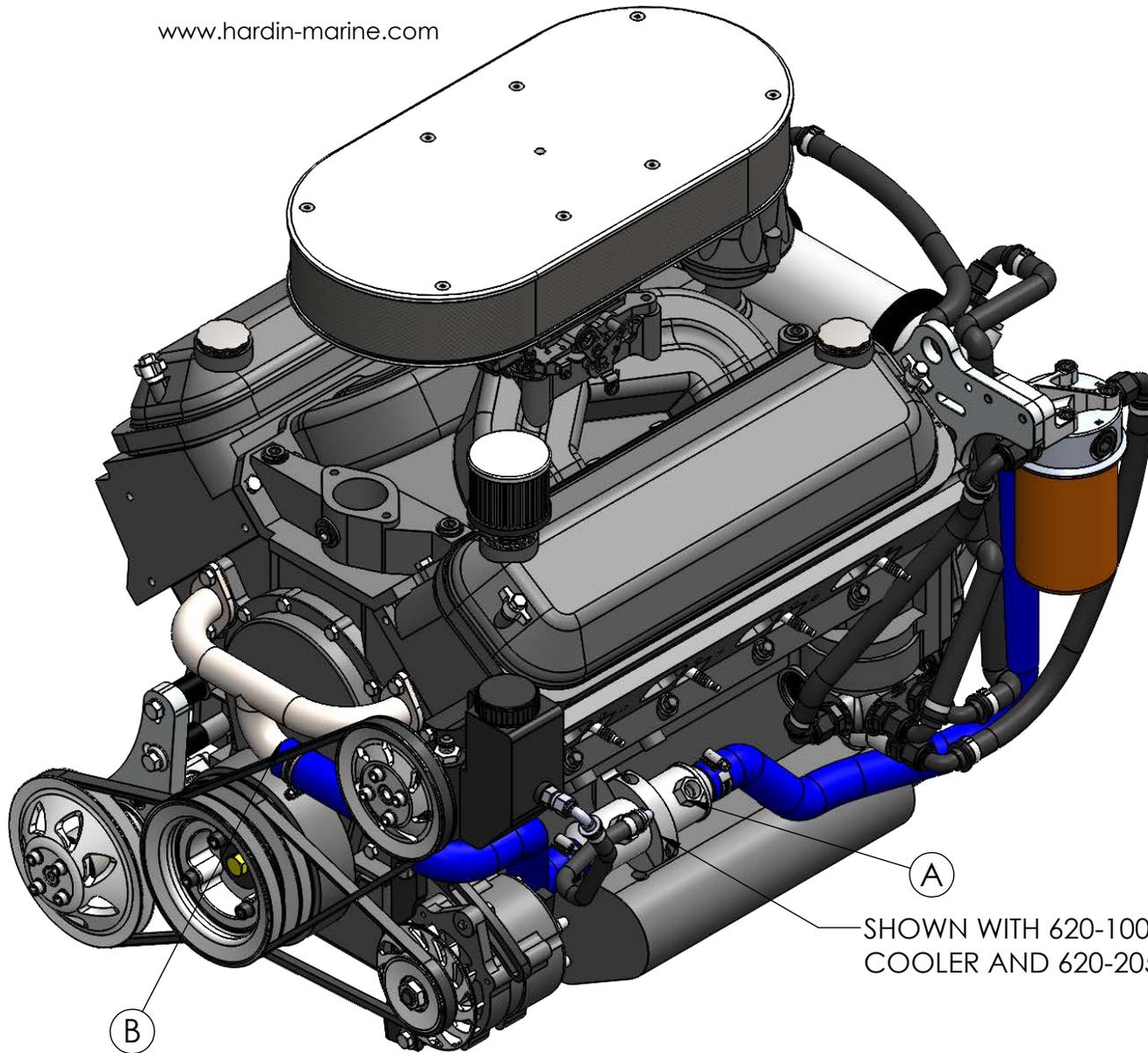
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625-8151

TITLE:

STANDARD DRIVE KIT - STEP 7

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— (A) — SHOWN WITH 620-100 POWER STEERING
COOLER AND 620-205 COOLER BRACKET.

(B)

ASSEMBLY IS USED FOR 625-8150
& 625-8151 DRIVE KITS.

INSTALLATION INSTRUCTIONS:

- 1) TYPICAL PORT SIDE FRESH WATER PLUMBING SHOWN. THE FRESH WATER INLET HOSE IS SHOWN IN BLUE.
- 2) COME OUT OF THE ENGINE COOLER AND RUN THROUGH THE POWER STEERING COOLER, FIG. A.
- 3) COME OUT OF THE POWER STEERING COOLER RUN INTO THE FRONT OF THE CROSSOVER, FIG. B.
- 4) SHOWN WITH 1-1/4 HOSE. YOU CAN ALSO USE -24 HOSE.

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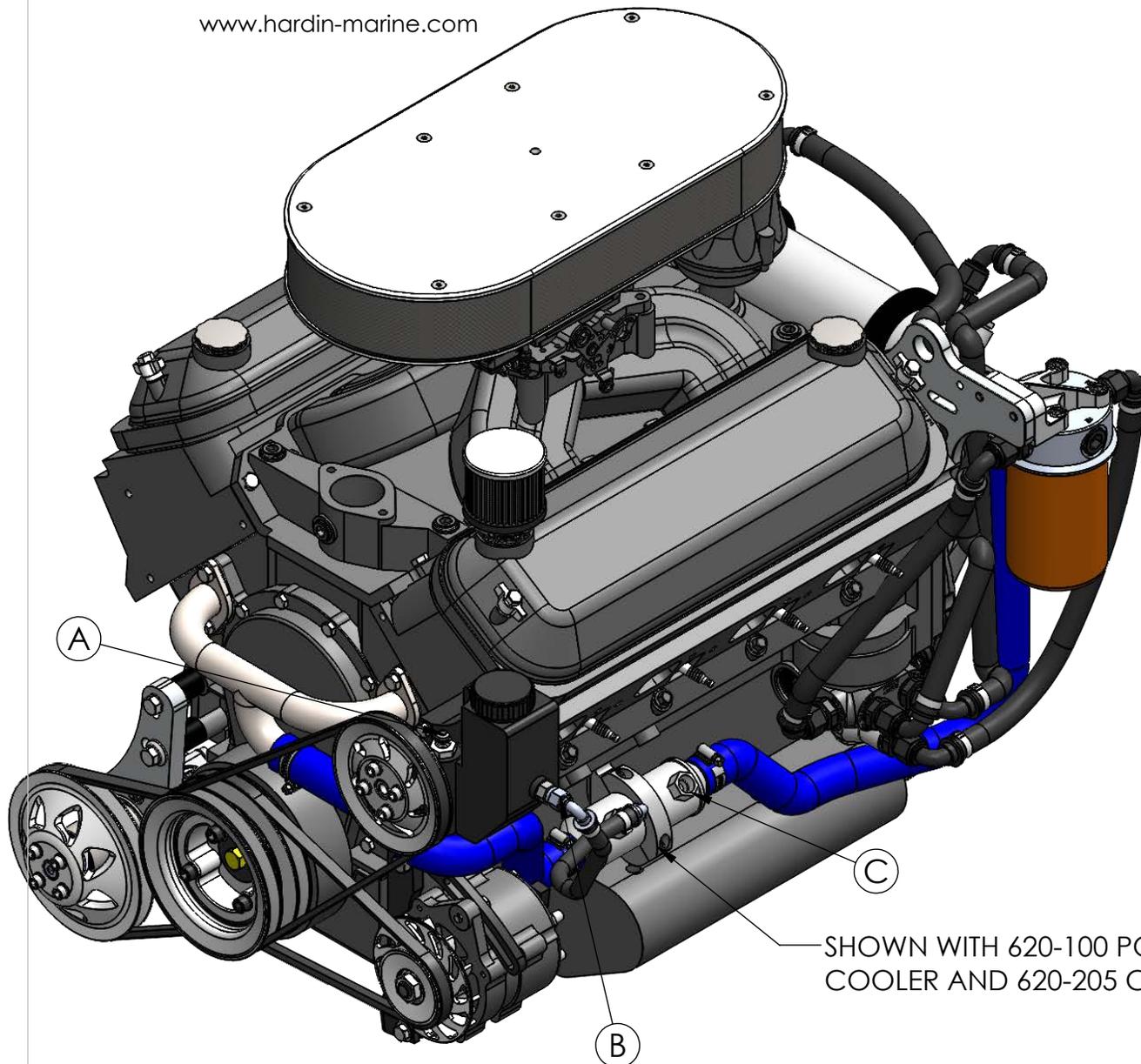
PART NO.

625-8151

TITLE:

STANDARD DRIVE KIT - STEP 8

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SHOWN WITH 620-100 POWER STEERING
COOLER AND 620-205 COOLER BRACKET.

ASSEMBLY IS USED FOR 625-8280, 625-8281, 625-8282 & 625-8283 DRIVE KITS.

POWER STEERING PLUMBING:

- 1) -6 JIC HIGH PRESSURE FITTING COMES OUT THE TOP, SIDE OF THE PUMP, FIG. A.
- 2) -6 JIC LOW PRESSURE RETURN COMES INTO THE SIDE OF THE RESERVOIR, FIG. B.
- 3) AS SHOWN IN THE DRAWING, THE LOW PRESSURE RETURN COMES FROM THE POWER STEERING OIL COOLER, FIG. C.
- 4) IF USING WITH EXTERNAL POWER STEERING RESERVOIR, PURCHASE 625-8171 DUMP CAP TO CONNECT TO RESERVOIR. CAP OFF THE LOWER PRESSURE RETURN. COME OUT OF THE OIL COOLER AND RETURN THE RESERVOIR.
- 5) USE GM POWER STEERING FLUID.

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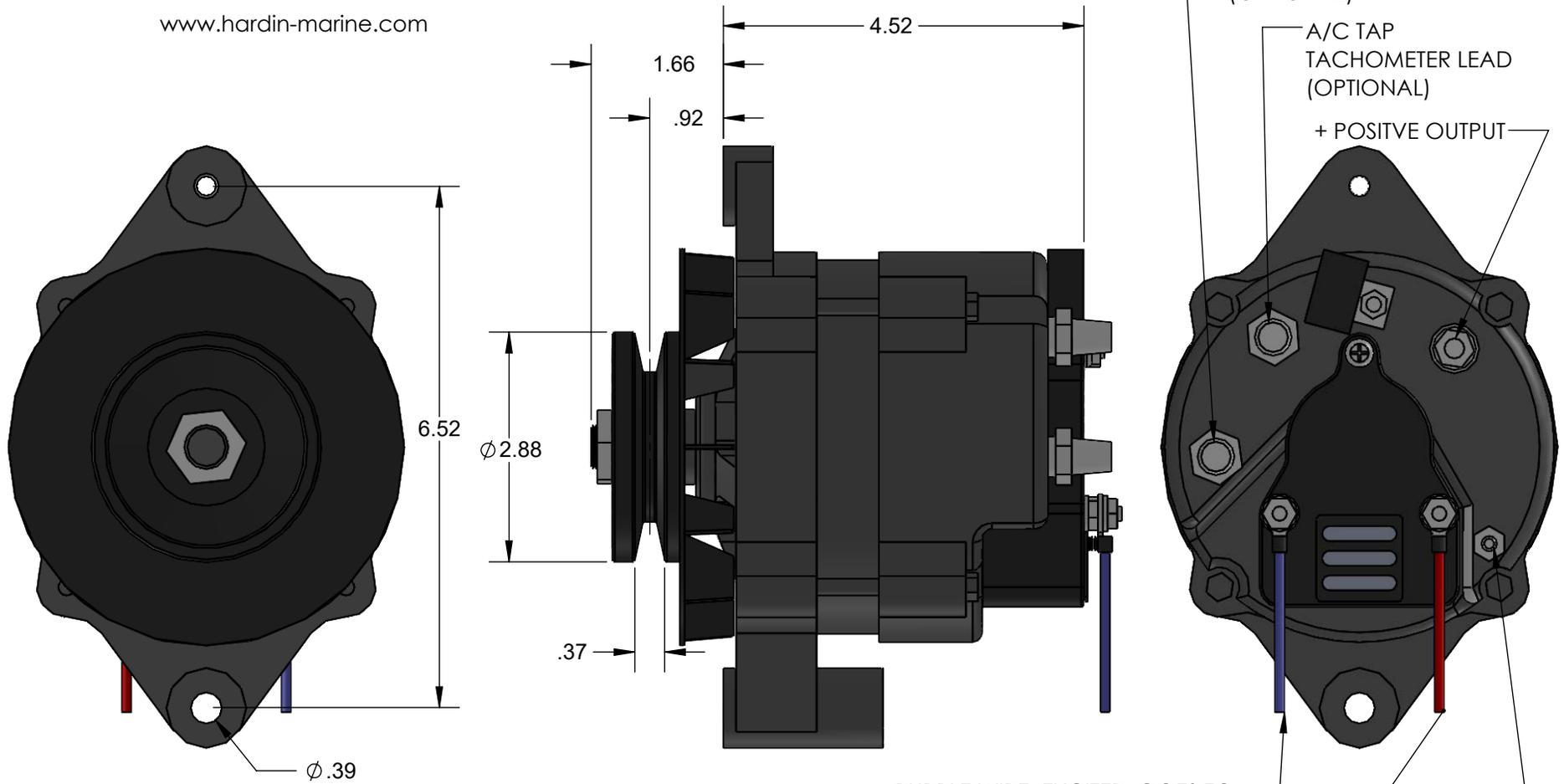
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PART NO.
620-3159M

TITLE:

65 AMP MANDO ALTERNATOR

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NOTE:
THE EXCITER, NEGATIVE AND POSITIVE
WIRES ARE ALL THAT IS NECESSARY TO
MAKE THE ALTERNATOR WORK.

PURPLE WIRE: EXCITER, GOES TO
IGNITION. SAME COLOR WAS
MERCURY WIRE HARNESS.

RED WIRE: SENSOR, CAN BE
ATTACHED TO THE POSITIVE
OUTOUT TO READ THE BATTERY.