

BILL OF MATERIALS

PUMP, PULLEY, BRACKETS, HYDRAULIC FITTINGS

- 1 x POWER STEERING PUMP
- 1 x POWER STEERING PUMP PULLEY
- 1 x POWER STEERING BRACKET, LARGE
- 1 x POWER STEERING BRACKET, SMALL
- 1 x 10AN BARBED PUSH LOCK HOSE END, STRAIGHT (TCI SUBFRAME)
- 1 x 10AN BARBED PUSH LOCK HOSE END, 90° (DSE SUBFRAME)
- 1 x 90° HYDRAULIC FITTING

PUMP MOUNTING HARDWARE

- 1 x M8x20mm BOLT
- 1 x M10x40mm BOLT
- 1 x M10x85mm BOLT
- 3 x M10 WASHER
- 1 x M10 LOCK NUT
- 2 x 5/16"x3-1/4" BOLT
- 4 x 5/16" WASHER
- 2 x 5/16" LOCK NUT
- 2 x 3/8" SHIM 0.048" THICK

IDLER PULLEY

- 1 x IDLER PULLEY
- 1 x IDLER PULLEY BOLT (LARGE BUILT-IN WASHER)

TENSIONER PULLEY

- 1 x TENSIONER, WATER PUMP & POWER STEERING
- 1 x M10x70mm TENSIONER BOLT

BELT

- 1 x SERPENTINE BELT

TOOLS INCLUDED

- 1 x TENSIONER PULLEY RE-CLOCKING TOOL

TOOLS REQUIRED (NOT INCLUDED)

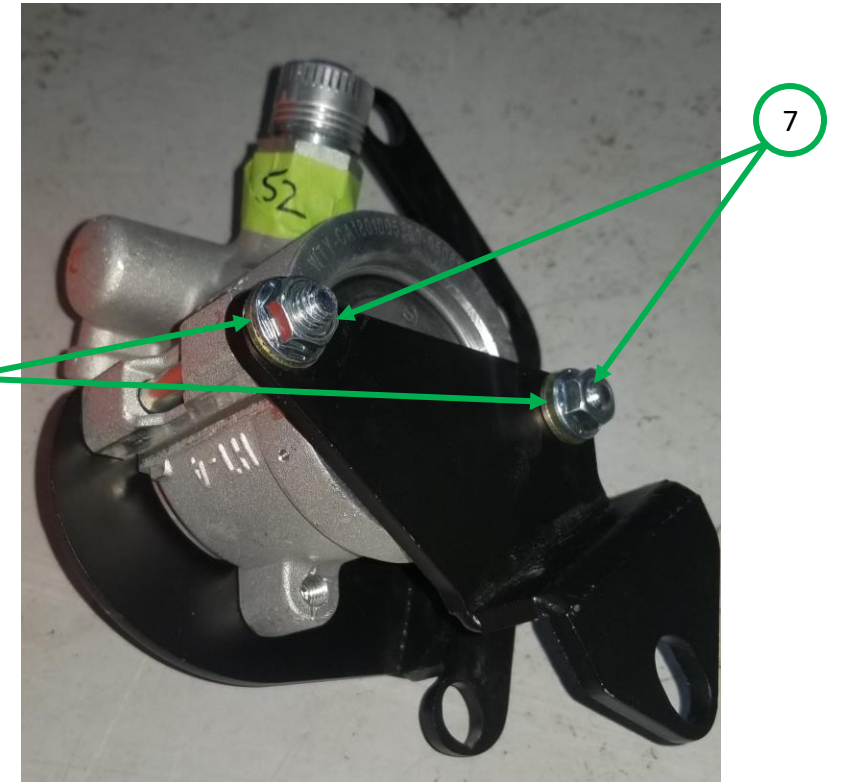
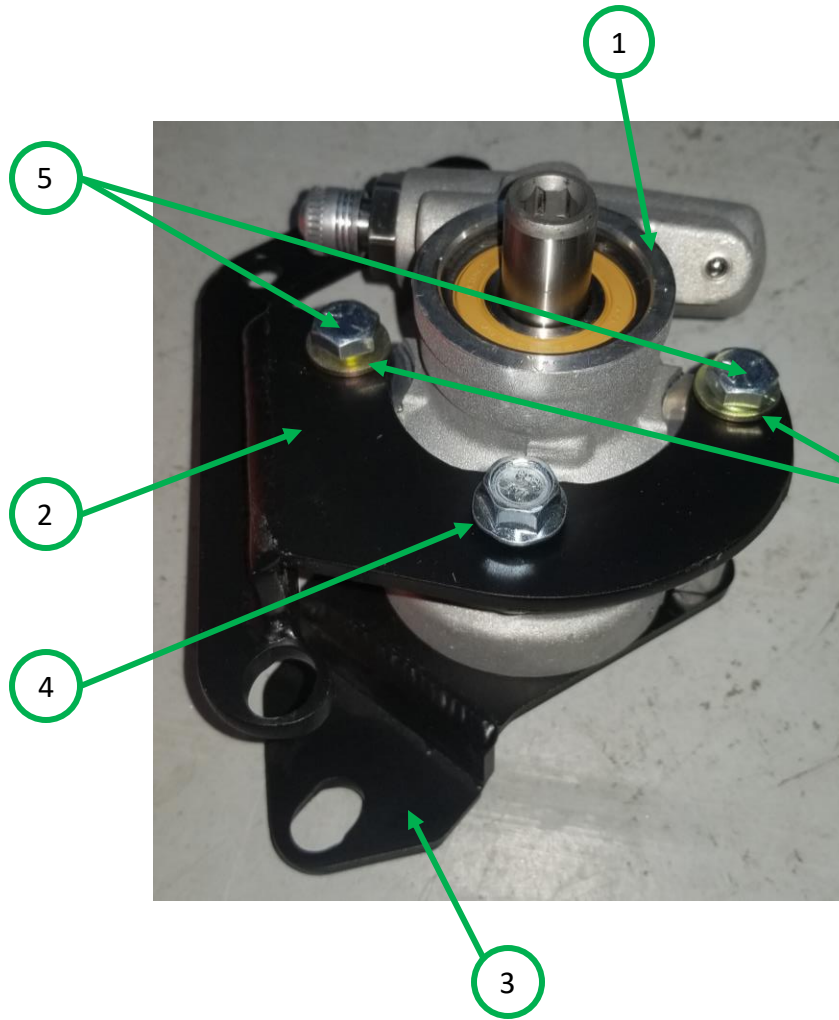
- 17/64" DRILL BIT
- DRILL
- TAPE
- METRIC WRENCHES
- SAE WRENCHES
- POWER STEERING PUMP PULLEY INSTALL/REMOVAL TOOL

POWER STEERING PUMP INSTRUCTIONS

STEP 1: LOOSELY HAND ASSEMBLE AS-SHOWN. BOLTS WILL BE TIGHTENED LATER.

STEP 1 PARTS

- 1 1 x POWER STEERING PUMP (MA50-19250-A)
- 2 1 x POWER STEERING BRACKET, LARGE (MA58-19230-A-SA)
- 3 1 x POWER STEERING BRACKET, SMALL (MA58-19233-A)
- 4 1 x M8x20mm BOLT
- 5 2 x 5/16"x3-1/4" BOLT
- 6 4 x 5/16" WASHER
- 7 2 x 5/16" LOCK NUT



POWER STEERING PUMP INSTRUCTIONS

STEP 2: PREPARE ENGINE FOR RE-CLOCKED BELT TENSIONER. TENSIONER WILL BE INSTALLED TO ENGINE LATER.

STEP 2 INCLUDED TOOLS

- 8 1 x TENSIONER PULLEY
RE-CLOCKING TOOL
- 9 1 x M10x40mm BOLT
(KEEP FOR USE IN STEP 4)

STEP 2 TOOLS REQUIRED (NOT INCLUDED)

- 17/64" DRILL BIT
- DRILL
- TAPE TO MARK DEPTH ON DRILL BIT



LOCATE TENSIONER MOUNT ON ENGINE.



TIGHTEN TENSIONER CLOCKING TOOL TO ENGINE. USE 17/64" DRILL BIT TO CREATE NEW TENSIONER CLOCKING HOLE. DRILL TO A DEPTH OF 3/8".

POWER STEERING PUMP INSTRUCTIONS

STEP 3: REPLACE LARGE DIAMETER STEEL IDLER PULLEY WITH SMALL DIAMETER PLASTIC IDLER PULLEY. TIGHTEN IDLER PULLEY BOLT.

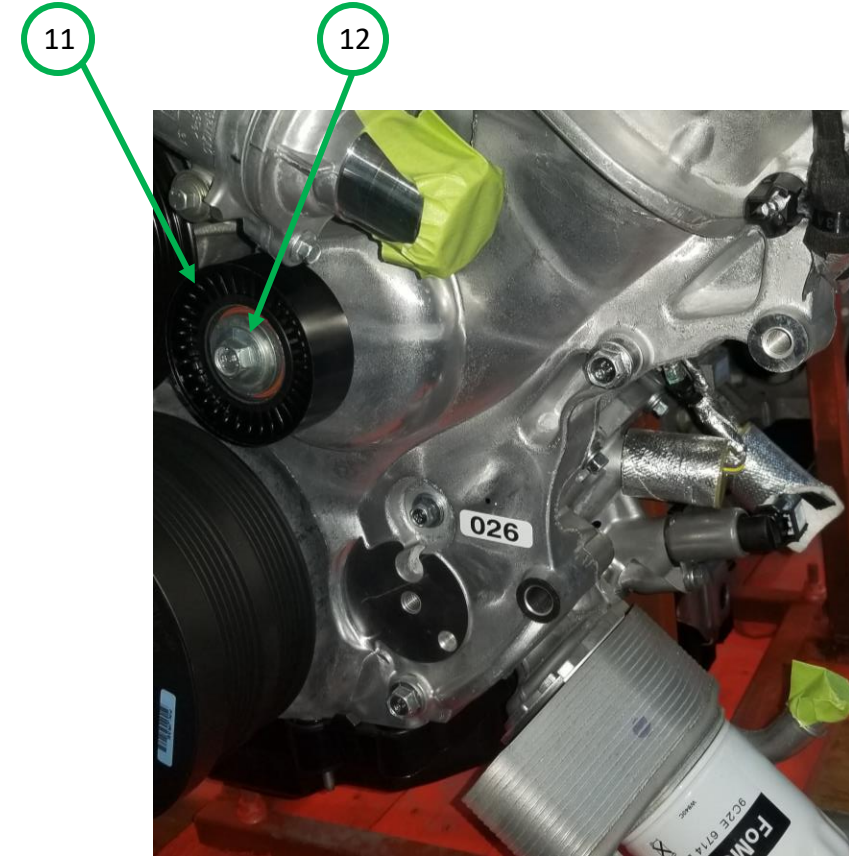
STEP 3 PARTS

11 1 x IDLER PULLEY

12 1 x IDLER PULLEY BOLT
(LARGE BUILT-IN WASHER)

STEP 3 TOOLS REQUIRED (NOT INCLUDED)

METRIC WRENCHES



POWER STEERING PUMP INSTRUCTIONS

STEP 4: INSTALL LOOSELY ASSEMBLED PUMP AND BRACKETS TO ENGINE AS-ORIENTED. CIRCLED BOLT COMES WITH ENGINE AND MUST BE RE-USED.

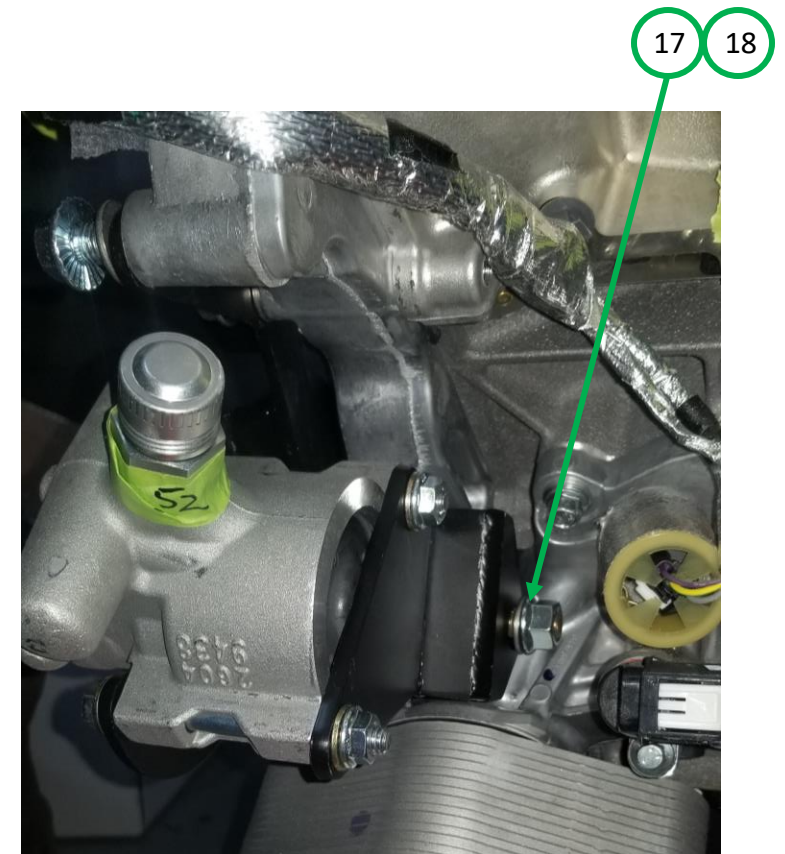
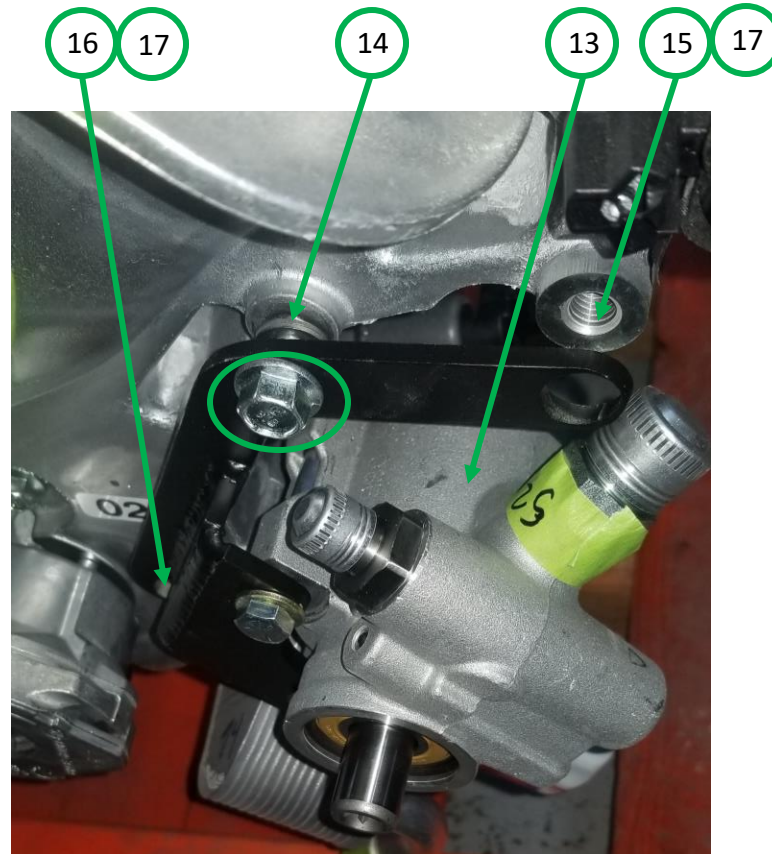
STEP 5: TIGHTEN ALL BOLTS FROM STEPS 1, 4, AND RE-USED ENGINE BOLT.

STEP 4 PARTS

- 13 1 x STEP 1 LOOSE ASSEMBLY (PUMP, BRACKETS, HARDWARE)
- 14 2 x 3/8" SHIM 0.048" THICK (BETWEEN ENGINE AND BRACKET)
- 15 1 x M10x40mm BOLT
- 16 1 x M10x85mm BOLT
- 17 3 x M10 WASHER
- 18 1 x M10 LOCK NUT

STEP 5 TOOLS REQUIRED (NOT INCLUDED)

- METRIC WRENCHES
- SAE WRENCHES



STEP 6: INSTALL TENSIONER INTO RE-CLOCKED HOLE. TIGHTEN TENSIONER BOLT.

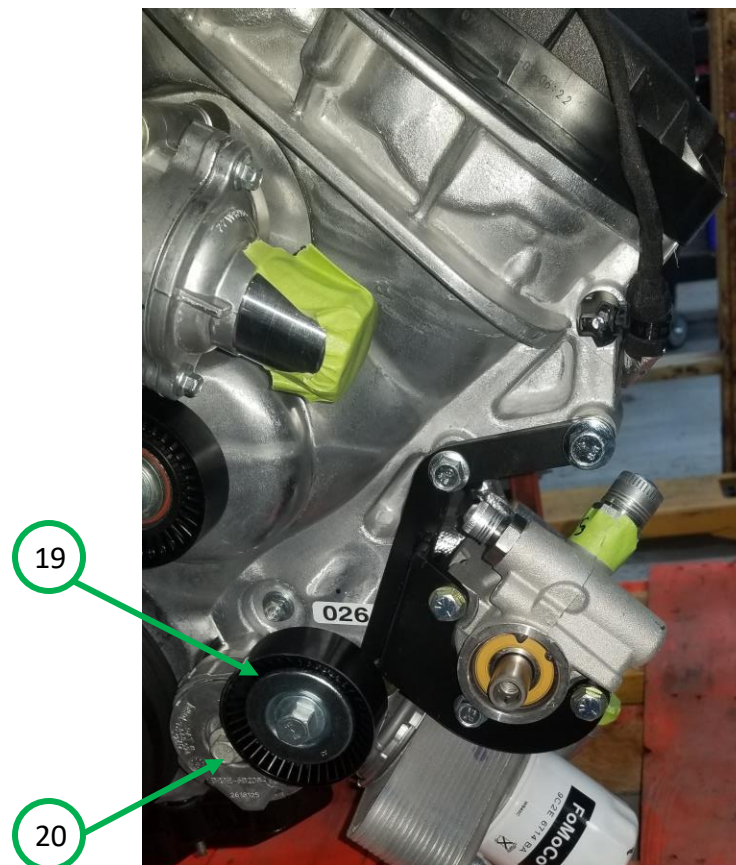
STEP 6 PARTS

19 1 x TENSIONER, WATER PUMP & POWER STEERING

20 1 x M10x70mm TENSIONER BOLT

STEP 6 TOOLS REQUIRED (NOT INCLUDED)

METRIC WRENCHES



POWER STEERING PUMP INSTRUCTIONS

STEP 7: INSTALL POWER STEERING PUMP PULLEY PARTIALLY. INSTALL BELT. FINISH INSTALLING POWER STEERING PUMP PULLEY BY CHECKING BELT ALIGNMENT WITH OTHER PULLEYS WHILE SETTING INSTALL DEPTH.

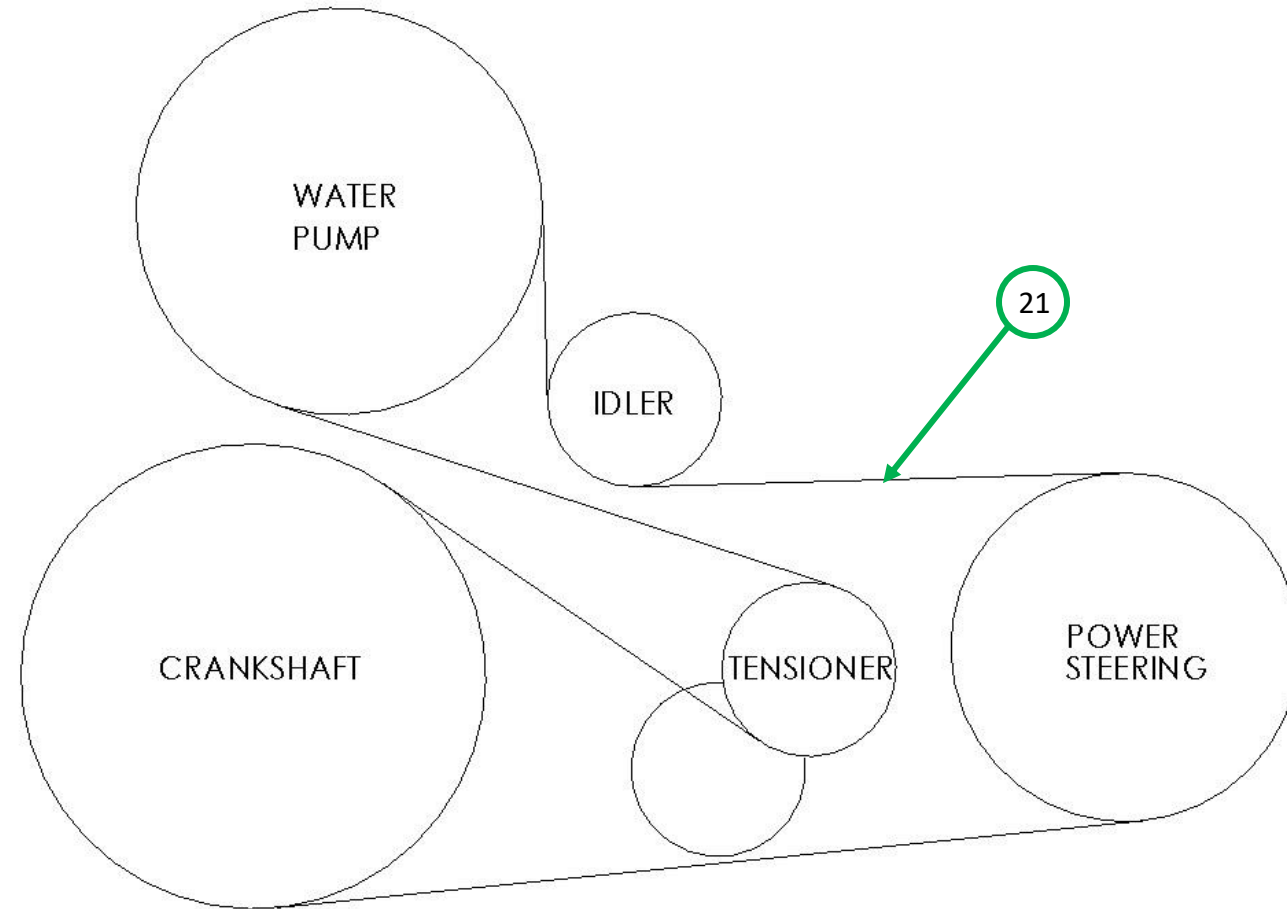
STEP 7 PARTS

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1 x SERPENTINE BELT

STEP 7 TOOLS REQUIRED (NOT INCLUDED)

METRIC WRENCHES



SERPENTINE BELT ROUTING