



SALEEN SPEEDLAB 1999-2004 MUSTANG GT UNDERDRIVE PULLEY KIT



INSTALLATION MANUAL: MUSTANG 4.6 2V
MANUAL P/N: 10-8002-C15311A

SALEEN

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DO NOT INSTALL ANY AFTERMARKET CHIPS OR PROGRAMMERS, OR HAVE YOUR PCM REPROGRAMMED ANYWHERE BUT AT SALEEN FOR THIS SUPERCHARGER KIT. THE 2005 MUSTANG USES AN ELECTRONIC THROTTLE CONTROL (ETC), WHICH IS CONTROLLED BY THE POWERTRAIN CONTROL MODULE (PCM) AND THE CALIBRATION INSIDE. AFTERMARKET CHIPS DO NOT PROPERLY RECALIBRATE THE ENGINE MANAGEMENT SYSTEM; THIS CREATES A DANGEROUS SITUATION THAT COULD RESULT IN A STUCK THROTTLE AND CAN LEAD TO INJURY OR DEATH. SALEEN FULLY REPROGRAMS THE PCM TO FORD STANDARDS, AND ENSURES THAT ALL ENGINE SAFETY CONTROLS ARE FULLY FUNCTIONAL.

1. Using an 18mm socket with 3/8" drive ratchet remove the bolt in the center of the harmonic balancer (FIGURE 1). Keep the stock washer for attaching the Saleen pulley.

2. Remove the four bolts from the water pump pulley using a 10mm socket. (FIGURE 1). You may have someone hold the pulley to keep it still or leverage a screwdriver against a pair of water pump bolts.

3. With a 15/16" socket and 3/8" drive ratchet, remove the bolt from the center of the alternator, and retain the bolt for installing the Saleen pulley (FIGURE 1).

4. Use a 3/8" drive ratchet and pull the tensioner clockwise to loosen the drive belt.

5. Remove the belt and set aside.

6. Obtain the crank pulley puller; center the puller over the harmonic balancer, and insert the three edge bolts of the puller into the three open holes of the harmonic balancer.

7. Ensuring that the puller is securely in place, install a 3/8" drive ratchet onto the puller and remove the harmonic balancer.

8. Remove the water pump and alternator pulleys.

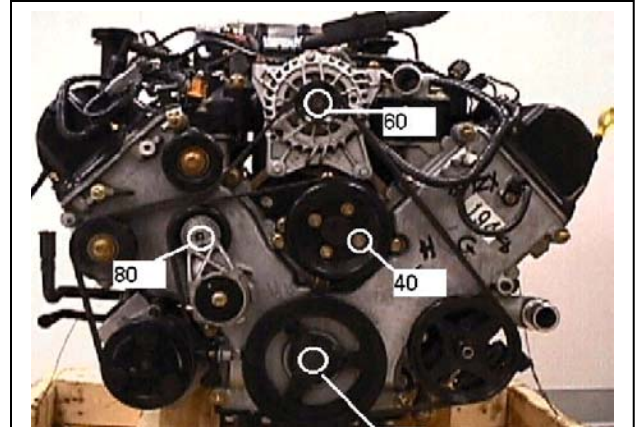


Figure 1

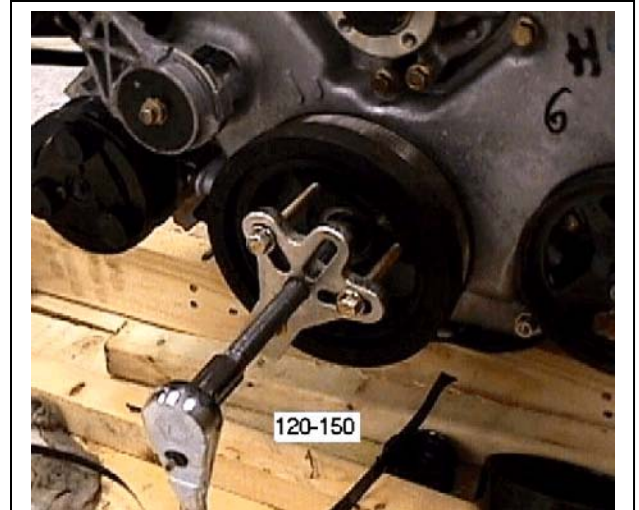


Figure 2

9. Line up the centers of the harmonic balancer and the Saleen alternator pulleys, noting the matching bolt patterns (FIGURES 3 & 4).

10. Push the protruding center of the harmonic balancer firmly onto the flat side of the Saleen crank pulley, ensuring that the bolt patterns are lined up and that the edges are lined up evenly.

11. Obtain the three 7/16 inch bolts, and place a lock washer over each.

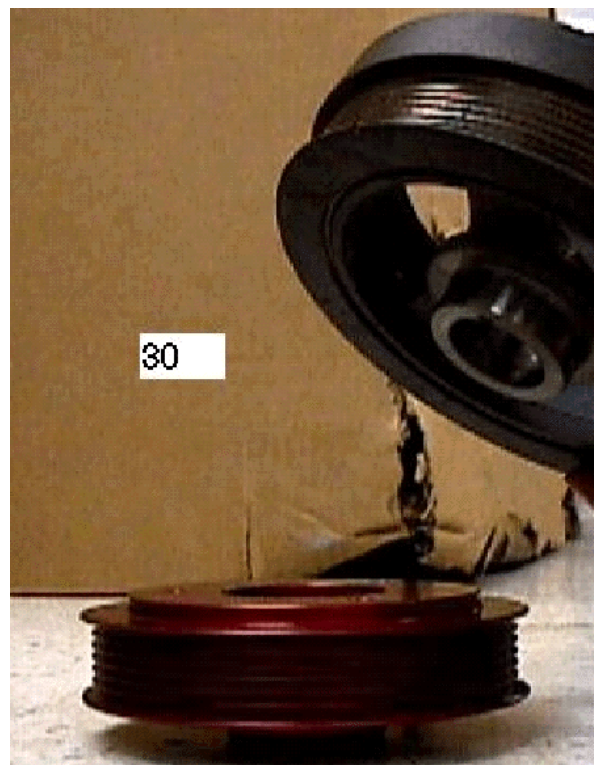


Figure 3

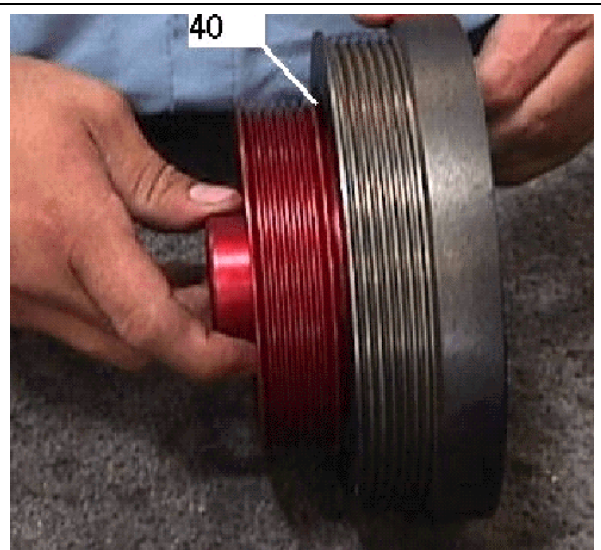


Figure 4

12. Coat the tip of each 7/16-inch bolt with a drop of blue loctite (FIGURE 5).

13. Install the three bolts with washer & loctite already on into the harmonic balancer (FIGURE 5).

14. Line up the key-way on the pulleys with the key-way on the crank shaft, and push the pulleys all the way in so that the Saleen pulley is flush with the motor.

15. Place the stock Ford crank pulley bolt washer over the supplied long crank pulley bolt, and install the bolt with washer assembly. Tighten the bolt using a 19mm socket on 3/8-inch drive ratchet.

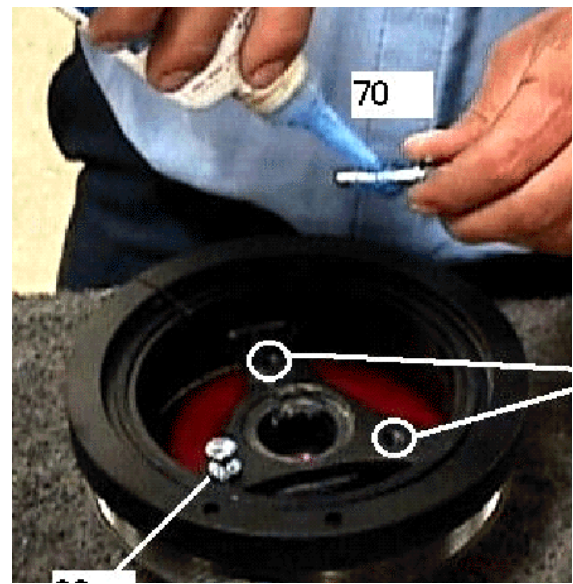


Figure 5

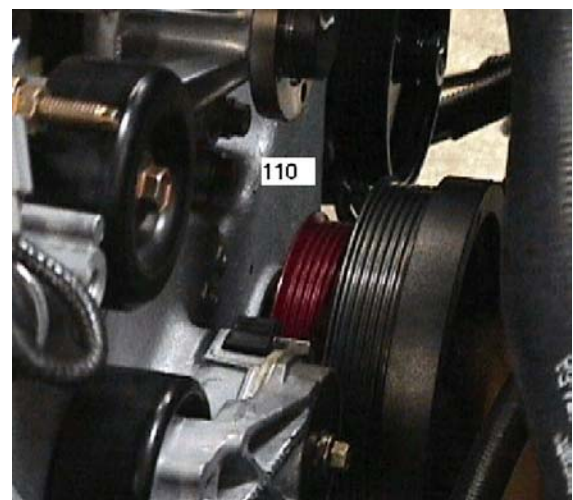


Figure 6

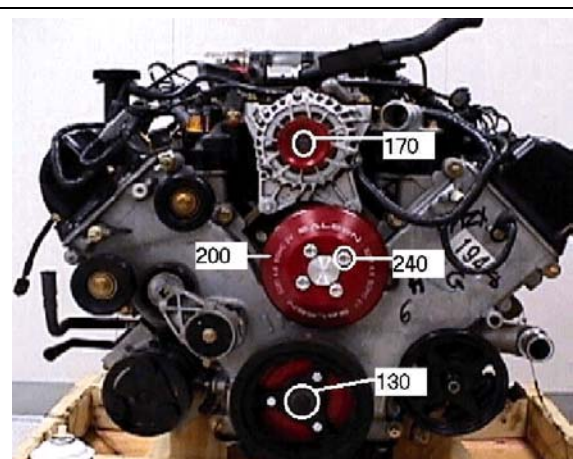


Figure 7

16. Install the Saleen alternator pulley onto the alternator shaft, orienting the protruding side of the pulley against the alternator.

17. Secure the alternator with the stock alternator pulley bolt, and hand tighten.

18. For models manufactured in the second half of the 2001 model year through the 2004 model year, install the water pump pulley spacer, making sure the holes are properly lined up (FIGURE 9).

19. For all model years, install the Saleen water pump pulley, ensuring the holes are properly lined up (FIGURE 10).

20. For **1999-2001.5 models**, secure the water pump pulley using the stock water pump bolts and a drop of blue Loctite on each.

20a. For 2001.5-2004 models, secure the water pump pulley with spacer using the provided bolts and a drop of blue Loctite on each.

21. Using a 12mm socket and a torque wrench, **torque the water pump pulley bolts to 18 lb-ft**. Torque the bolts in a criss-cross pattern.

22. Install the belt in the pattern shown in FIGURE 10. The grooved side of the belt should go against the grooves in the crank and alternator pulleys, and the smooth side of the belt will be against the water pump pulley.

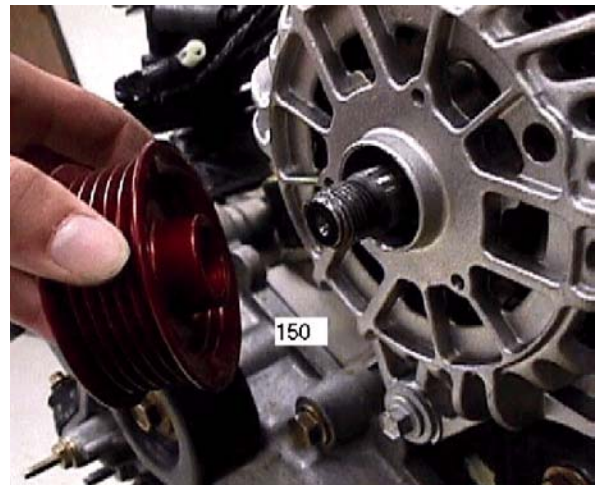


Figure 8

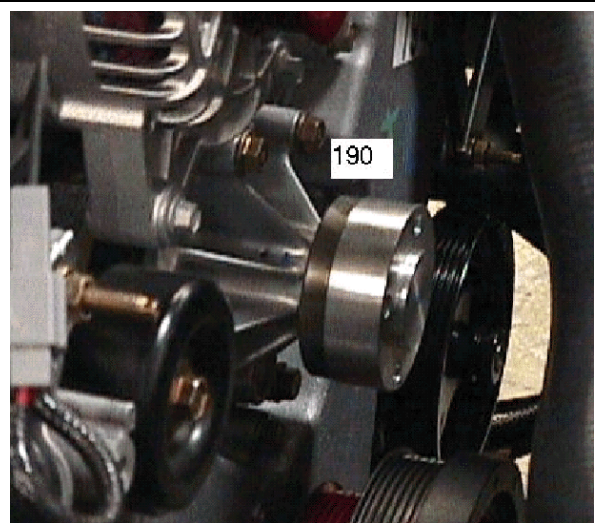


Figure 9

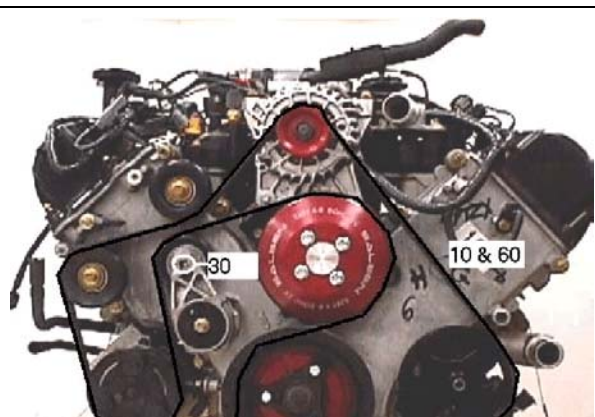


Figure 10



23. Torque the center crank pulley bolt to 66 lb-ft.

24. Torque the three smaller bolts connecting the Saleen crank pulley to the harmonic balancer to 14 lb-ft.

25. Torque the alternator pulley bolt to 89 lb-in of torque (about 7.5 lb-ft).