

Mac's Radiator Flush Technique

1. Drained all of the old water
2. Built a backflushing attachment with some new radiator hoses as recommended by Tom Endy.
3. Back flushed radiator, and engine until the water was clear and free particles.
Keep the pressure during engine backflush less than 15 psi.
4. Instilled a dilute soapy water solution with Dawn Dish soap.
5. Run the car for 30 minutes and let it soak for 24 hours.
6. Drained dirty soap solution.
7. Backflushed the engine and the radiator.
Keep the pressure during engine backflush less than 15 psi.
8. Instilled an Oxalic Acid (Savogran Wood Bleach) solution in a three parts water to one part oxalic acid ratio.
9. Run the car for 15 minutes until the engine was over 200° and the radiator fluid was greater than 170°.
10. Let the engine cool down to less than 100°.
Approximately 45 minutes.
11. Drained dark green acid solution
12. Neutralized acid solution with one box of sodium bicarbonate (Arm and Hammer) in 3 gallons of water and circulated this with the engine running for five minutes
13. Let engine cool to less than 100°F
14. Back flushed radiator, and engine until clear
Keep the pressure during engine backflush less than 15 psi.
15. Instilled a weak green Phosphoric Acid (Klean Strip Concrete and Metal Prep) solution with the same three to one ratio to give a 30% acid solution.
16. Ran engine until head temperature was 200° and radiator fluid was greater than 175°.
17. Allowed the solution to sit until the engine cooled to less than 100°F. This took approximately 45 minutes.
18. Drained filthy, cloudy acid solution.
19. Neutralized acid solution with one box of sodium bicarbonate (Arm and Hammer) in 3 gallons of water and circulated this with the engine running for five minutes.
20. Let the engine cool to less than 100° F.
21. Back flushed radiator, and engine until clear water, and free of particles.
22. Filled radiator and engine with clean water.

